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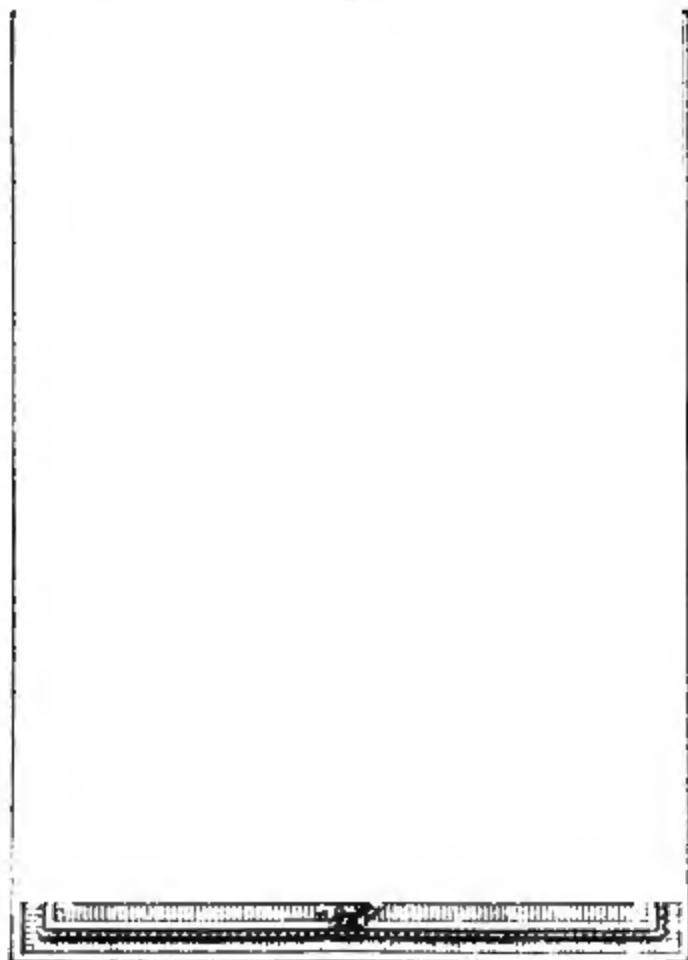
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CATALOGUE  
OF  
THE COLUMBIAN UNIVERSITY

WASHINGTON, D. C.

1897-'98.

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**FOUNDED 1821.**

# CALENDAR FOR 1897.

SEPTEMBER							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	1	2	..	1	2	3	4	5	6	..	..	..	1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..	26	27	28	29	30	31	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

# CALENDAR FOR 1898.

<b>JANUARY.</b>						
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

<b>FEBRUARY.</b>						
S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	..	..	..	..	..
..	..	..	..	..	..	..

<b>MARCH.</b>						
S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..
..	..	..	..	..	..	..

<b>APRIL.</b>						
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
..	..	..	..	..	..	..

MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	..	..	..	..	1	2	..	1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31	..	..	..	..	26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	31	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..

SEPTEMBER.						
S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
..	..	..	..	..	..	..

OCTOBER.						
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

NOVEMBER.						
S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	..	..	..
..	..	..	..	..	..	..

DECEMBER.						
S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
..	..	..	..	..	..	..

# CALENDAR FOR 1899.

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	..	..	1	2	3	4	..	..	..	..	..	..	1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	..	..	..	..	26	27	28	..	..	..	..	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..

MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31	..	..	..	25	26	27	28	29	30	..	23	24	25	26	27	28	29	27	28	29	30	31	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..



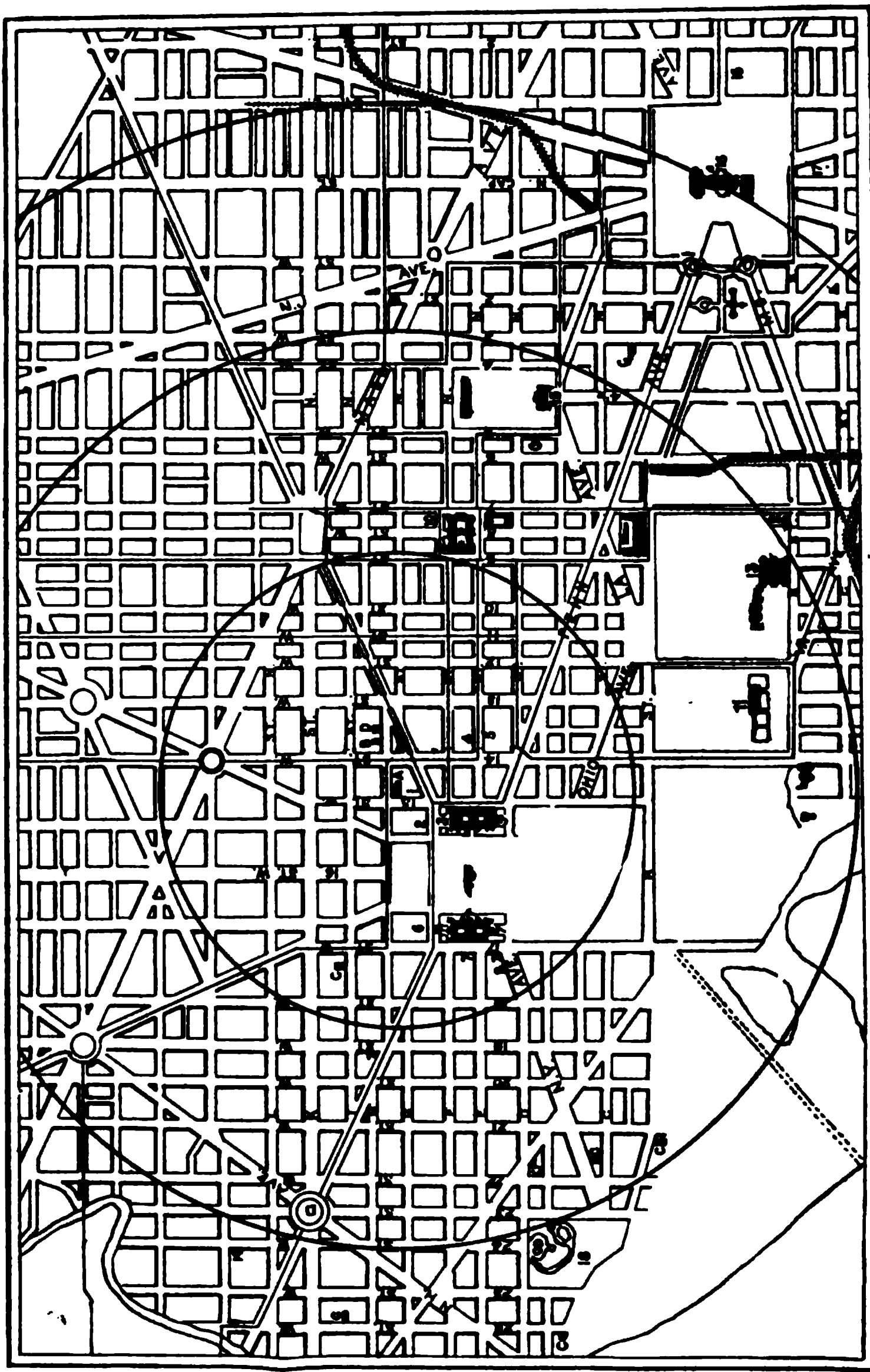
CATALOGUE  
OF  
THE COLUMBIAN UNIVERSITY

WASHINGTON, D. C.

1897-'98.

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WASHINGTON, D. C.:  
HARTMAN & CADICK, PRINTERS.  
1898.



## KEY TO THE MAP.

The circles on the map are drawn with radii of 2,000, 4,000, and 6,000 feet, respectively, from the main building of the University as a center.

A—The main building of the University, southeast corner of 15th and H streets N. W.

B—The Columbian University Hospital.

C C C C—Parcels of ground belonging to the University.

D—The Medical and Dental School building.

**LIBRARIES, NUMBERED IN THE ORDER OF THEIR PROXIMITY TO THE UNIVERSITY.**

### *Within less than a five or six minutes' walk:*

1.	Library of Department of Labor,	8,000 volumes.*
2.	" " Department of Justice,	25,000 "
3.	" " Treasury Department,	30,000 "
3.	" " Light-House Board,	3,000 "
4.	" " Bureau of Statistics,	5,000 "
5.	" " Geological Survey,	40,000 "
5.	" " Bureau of Ethnology,	5,000 "
6.	" " Corcoran Gallery of Art,	2,500 "
7.	" " War Department,	49,000 "
7.	" " Navy Department,	29,000 "
7.	" " Department of State,	60,000 "
7.	" " War Records Office,	2,000 "
7.	" " Hydrographic Office,	3,000 "
8.	" " Museum of Hygiene,	11,000 "

### *Within a five or ten minutes' ride by the street railway:*

9.	Library of United States Patent Office,	67,000 volumes.
—.	" " Interior Department,	13,000 volumes.
—.	" " Post Office Department,	11,000 volumes.
10.	" " Bureau of Education,	68,000 volumes.
11.	" " Department of Agriculture,	53,000 volumes.
12.	" " Army Medical Museum,	105,000 volumes.
13.	" " United States National Museum,	25,000 volumes.
14.	" " United States Weather Bureau,	11,000 volumes.

### *Within a fifteen minutes' ride by the street railway:*

15. The Library of the United States Supreme Court, 80,000 volumes.
15. The Library of the Smithsonian Institution, 250,000 volumes.
16. The Library of Congress, 900,000 volumes.
17. Library of the United States Coast and Geodetic Survey, 14,000 volumes.
18. Site of the old United States Naval Observatory.

### *Within a thirty minutes' ride by the street railway:*

Library of the new United States Naval Observatory (not indicated on map), 18,000 volumes.

Library of Nautical Almanac Office, 2,000 volumes.

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\* Number of volumes January 1, 1897.

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# UNIVERSITY CALENDAR.

## Current Academic Year, 1897-'98.

1897.		
Sept.	27.	{ Examination of Candidates for Admission } Monday.
	28.	{ to College. } Tuesday.
Sept.	29.	{ Sessions of College, Scientific and Graduate } Wednesday.
		{ Schools begin. }
Oct.	4.	{ Sessions of Law, Medical, Dental and Vet- } Monday.
		{ erinary Schools begin. }
Nov. 25-27*.—Thanksgiving Recess.		
Dec. 24-Jan. 2*, 1898.—Christmas Recess.		
1898.		
Jan.	5.	—Annual Meeting of Alumni. Wednesday.
Jan.	17.	—First Term College Examinations begin. Monday.
Jan.	31.	{ Second Term of College and Scientific } Monday.
		{ School begins. }
Feb.	22.	—Washington's Birthday, Holiday. Tuesday.
Apr. 8-11*.—Easter Recess.		
May	11.	{ Examinations for Degrees in College, Scien- } Wednesday.
		{ tific School and Graduate School to be } completed. }
May	14.	{ Examinations for Degrees in Law School } Saturday.
		{ to be completed. }
May	18.	{ Second Term Examinations in College and } Wednesday.
		{ Scientific School begin. }
May	23.	—Doctorate Disputation. Monday.
May	29.	—Baccalaureate Sermon. Sunday.
May	30.	—Decoration Day, Holiday. Monday.
June	1.	—Annual Meeting of the Board of Trustees. Wednesday
June	1.	—University Commencement. Wednesday.
June	20.	—Summer School begins. Monday.
July	30.	—Summer School ends. Saturday.

## Academic Year, 1898-'99.

1898.		
Sept.	26.	{ Examination of Candidates for Admission } Monday.
	27.	{ to College. } Tuesday.
Sept.	28.	{ Session of College, Scientific and Graduate } Wednesday.
		{ Schools begins. }

\*All dates inclusive.

1898.

Oct. 3. { Sessions of Law, Medical, Dental, and } Monday.  
                     { Veterinary Schools begin.

Nov. 24-26\*.—Thanksgiving Recess.

Dec. 7.—Annual Meeting of Alumni. Wednesday.

Dec. 24-Jan. 1\*, 1899.—Christmas Recess.

1899.

Jan. 23.—First Term College Examinations begin. Monday.

Jan. 30. { Second Term of College and Scientific } Monday.  
                     { School begins.

Feb. 22.—Washington's Birthday, Holiday. Wednesday.

Mar. 31-Apr. 3\*.—Easter Recess.

May 10. { Examinations for Degrees in College, Scien- } Wednesday.  
                     { tific and Graduate Schools to be completed.

May 17. { Examinations for Degrees in Law School } Wednesday.  
                     { to be completed.

May 17. { Second Term Examinations in College and } Wednesday.  
                     { Scientific School begin.

May 22.—Doctorate Disputation. Monday.

May 28.—Baccalaureate Sermon. Sunday.

May 31.—Annual Meeting of the Board of Trustees. Wednesday.

May 31.—University Commencement. Wednesday.

June 19.—Summer School begins. Monday.

July 29.—Summer School ends. Saturday.

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\*All dates inclusive.



## EDUCATIONAL FACILITIES OF WASHINGTON.

Washington is rich beyond any other American city, not only in the special libraries enumerated in the page facing the map, but also in large collections, illustrative of the various arts and sciences, which have been accumulated at the National Capital by the action of Congress through a long series of years. Under many of these heads Washington is not surpassed by any European capital. In view of the fact that in collecting these archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

The Columbian University is further authorized to state that certain libraries of eminent men of science connected with the scien-

tific service of the Government, and some of which are exceptionally valuable, will be open to such students of the Graduate School as shall be qualified to use them for purposes of original research.

### **Educational Relations of the University.**

The Columbian University has no organic connection with any literary or scientific department of the Government, but its relations with them all are close and intimate. Two Associate Justices of the Supreme Court of the United States and two Associate Justices of the Supreme Court of the District of Columbia are active members of its Law Faculty. The Director of the Bureau of Ethnology is a trustee of the University, and the Smithsonian Institution, the National Museum, the United States Naval Observatory, the Nautical Almanac Office, the Signal Corps of the United States Army, the Army Medical Museum, the Coast and Geodetic Survey, the United States Department of Education, the United States Weather Bureau, the Bureau of Chemistry, the Bureau of Animal Industry, of the Department of Agriculture, and the Bureau of the Mint are all represented in the Faculty of the University, and some of these departments have several representatives in its teaching body. The National Academy of Sciences is represented both in the Board of Trustees and in the Faculty of the University. The President of the Society of Philosophical Inquiry is Professor of Philosophy in the University.

### **Other Scientific Facilities in Washington.**

Washington is as much the scientific center as it is the legislative, executive, and judicial center of the United States. The great scientific operations of the Government have their bureaus of direction and administration at the National Capital, and with each of these bureaus a large corps of scientific workers is necessarily connected. For purposes of scientific stimulus and inquiry these workers are here gathered into societies, which hold public meetings for the reading and discussion of papers. The membership of the several societies comprises an aggregate of more than 1,600 persons.

The annual meetings of the Anthropological, Biological, Geographic, and Philosophical Societies, and occasionally their special

meetings of public interest, are held in the main lecture hall of The Columbian University.

The National Academy of Sciences (Dr. Woicott Gibbs, President) meets annually in Washington in April.

During the Christmas holidays the lecture halls of the University are occupied from year to year by the American Historical Association, the American Church History Association, the Modern Language Association of America, the American Folk-Lore Society, and the American Dialect Society for the purposes of their annual meetings. These meetings are open to the students of the University.

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An address-list of all graduates is kept at the University by the Secretary of the General Alumni Association. All Alumni are requested to send to him notices of changes in address, and any other items of information in reference to graduates or former students of the University.

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## ENDOWMENTS.

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The value of the University's property and endowments is estimated at about \$1,000,000. The endowments need an increase in every direction. New buildings, or an enlargement of existing structures, are required to accommodate the great increase of students in the Law, Medical, Dental, and Scientific Schools.

The proposed School of Comparative Jurisprudence calls for an endowment of \$250,000.

The following announcements, approved by the Board of Trustees, are extracted from the Annual Report of 1891:

1. Scholarships are rated at two thousand dollars each, and friends of the University are invited to found one or more of them.

2. Fellowships and Lectureships are rated at ten thousand dollars each, the proceeds of the funds to be devoted to endowing courses of lectures or to paying the expenses of meritorious students.

3. Professorships are rated at eighty thousand dollars each, and special "Schools" at two hundred thousand dollars, the income to be devoted to the support of professors or of such Schools, in accordance with the present organization of The Columbian College, the Corcoran Scientific School, the School of Graduate Studies, the Law School, the Medical School, the Dental School, and the Veterinary School.

By an act of Congress approved March 3, 1873, the act to incorporate The Columbian College, in the District of Columbia, approved February 9, 1821, was so far modified as to provide, *inter alia*, "that said corporation shall be hereafter known and called by the name of The Columbian University, and in that name shall take, hold, and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name."

## FORMS OF BEQUESTS.

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I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be applied, at their discretion, to the general purposes of the University.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them and called the — Scholarship fund. The interest of this fund shall be applied, at their discretion, to the encouragement of deserving students.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them as an endowment for the support of (the School of —), (a Professorship of —), (a Lectureship in the School of —), (a Fellowship in the School of —) in the University, etc.

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ACADEMIC YEAR 1897-'98.

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2115 Bancroft Place N. W.

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2017 I Street N. W.

**CLEVELAND ABBE, JR., A. B.,** *Instructor in Physiography,*  
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1717 Nineteenth Street N. W.

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1625 Massachusetts Avenue N. W.

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1404 H Street N. W.

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2013 Q Street N. W.

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Equity Jurisprudence and International Law,*  
1412 Massachusetts Avenue N. W.

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1418 L Street N. W.

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WALTER HONESTY, *Medical School.*

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The lectures given in University Hall, other than those given to the students in law, are open to all students in the University and to the public. During the session of 1897-98 the following lectures have been delivered:

Professor J. H. GORE.—The Decimal System of Measures and its History.

Professor M. M. RAMSEY.—Literary Development in Latin-America.

Professor JOHN ST. C. BROOKES.—Spain under Roman Rule.

Professor WILLIAM ALLEN WILBUR.—The Making of a Writer.

Professor HERMANN SCHOENFELD.—The Literary Side of the Classic School of German Historians.

Professor EDWARD B. POLLARD.—The Higher Criticism, and the Results of the Modern Historical Method upon Bible Study.

Professor WILLIAM ORDWAY PARTRIDGE.—A course of six lectures upon Art.



# THE COLUMBIAN COLLEGE.

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Dean and Professor of Greek.

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Professor of Romance Languages.

CHARLES C. SWISHER, PH. D.,  
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Professor of English.

JOHN ST. CLAIR BROOKES,  
Acting Professor of Latin.

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Lecturer on Spanish History and Literature.

HON. JOHN W. POWELL, LL. D.,  
Lecturer on The History of Culture.

OTIS T. MASON, PH. D., LL. D.  
Lecturer on The Origins of Culture.

LESTER F. WARD, A. M., LL. D.  
Lecturer on Sociology.

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The College is open to students of both sexes.

The regular courses of instruction are comprised in twelve departments, as follows:

- I. BIBLICAL LITERATURE.
- II. CHEMISTRY: General, Inorganic and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis.
- III. ENGLISH: including English Language and Literature, Rhetoric and Composition.
- IV. GERMANIC LANGUAGE AND LITERATURE.
- V. GREEK: including the Greek Language and Literature.
- VI. HISTORY: including Ancient, Mediaeval, and Modern History.
- VII. LATIN: including the Latin Language and Literature.
- VIII. MATHEMATICS: including Pure Mathematics and Mechanics.
- IX. PHILOSOPHY.
- X. PHYSICS.
- XI. POLITICAL SCIENCE.
- XII. ROMANCE LANGUAGES: including the French Language and Literature, the Spanish Language and Literature, and the Italian Language and Literature.

**Biblical Literature.****PROFESSOR POLLARD.**

In this department is taught the history, the contents and literary forms of the Old and New Testaments. The aim is not theological or dogmatic, but literary and historical, the student being guided into correct methods of Bible study, and enabled to realize the cultural value of the Biblical classics.

The following courses are offered for the session 1898-99.

1. Literature. The Hebrew Legal Literature—with special reference to the laws and customs of the Hebrews, as reflected in the Mosaic legislation. Two hours,\* first term.

2. Hebrew Poetry. Lectures, and special study of the Lyric poetry; its personal, historical and national elements. Two hours, second term.

3. History. The Persian Period—the history of the Jews after the Exile. One hour, first term.

4. The Inter-Biblical Period—Greek and Roman dominance, to the beginning of the Christian era. One hour, second term.

5. Lectures and Studies on the Life and Times of Christ. Two hours, first term.

6. Studies in the Life and Writings of Paul. Two hours, second term.

7. Languages. New Testament Greek. Readings in the Gospels and Epistles, with reference not only to their contents, but also to the Hebraic influence upon the language, and the divergences of the Hellenistic Greek from classic usage. One hour.

The Biblical Club, organized during the past session, has been found helpful to students in this department. The object of the Club is to keep informed upon current Biblical discussion, and to listen from time to time to addresses from specialists on Biblical topics.

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\*Unless otherwise stated, hours per week throughout the year.

**Chemistry.****PROFESSOR MUNROE.**

1. General, Inorganic and Organic Chemistry; lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Three hours.

Barker's Elementary Chemistry; Remsen's Organic Chemistry.

2. Laboratory Practice. Students must provide themselves in all the laboratory courses with note books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University. Three hours.

Cooke's Laboratory Practice.

3. Qualitative Analysis. Three hours.

Clowe's Qualitative Analysis.

4. Quantitative Analysis. Three hours.

Fresenius' Quantitative Analysis.

**English.****PROFESSOR WILBUR.**

Courses of study in the department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give information, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

**I.****RHETORIC AND COMPOSITION.**

1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books, *Practical Elements of Rhetoric*, Genung; *Handbook of Rhetorical Analysis*, Genung.) This course presupposes a knowledge of the

elements of rhetoric. Two objects are contemplated: (1) a verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2), the application of rhetorical rules in paragraph and theme writing. Freshmen. Two hours.

2. Theme Writing. Practice in various kinds of composition and studies in style. This is an advanced course in English composition; it consists of themes, fortnightly essays, class studies, and lectures. Sophomores. One hour.

3. English Prose. The development of English prose style from Lyly to Macaulay. (Text-book, *Manual of English Prose Literature*, Minto; selections as needed.) Sophomores. Two hours.

## II.

### LANGUAGE AND LITERATURE.

4. English Literature. The history and development of English Literature; an outline study, with lectures and readings from English authors. Freshmen. One hour.

5. American Literature. Studies in American Literature; lectures in history and criticism, and the discussion of papers prepared by the class. Two hours. (Omitted in 1898-99.)

6 (a). Milton. A study of Milton's poems and of their relation to Puritanism. Juniors. Two hours, first term.

6 (b). Dryden and Pope. A study of eighteenth century poetry. Juniors. 2 hours, second term.

7 (a). Shakespeare. The English Historical Plays: King John; King Richard II; King Henry IV, parts. i, ii; King Henry V; King Henry VI, parts, i, ii, iii; King Richard III; King Henry VIII. Seniors. Three hours, first term.

7 (b). Shakespeare. A group of selected plays studied comparatively: As You Like It, Julius Caesar, Hamlet, Othello, Lear, Macbeth, The Tempest. Seniors. Three hours, second term.

8. Old English. Elementary course. The essentials of the grammar and the reading of Old English texts. Two hours.

9 (a). Wordsworth and Coleridge. Studies in the poetry of Wordsworth and Coleridge, with some inquiry into the sources and character of modern Romanticism. Seniors. One hour, first term.

9 (b). Tennyson. Studies of the earlier poems, *The Princess*, *In Memoriam*, and *Idylls of the King*. Seniors. One hour, second term. (Omitted in 1898-99.)

### Germanic Language and Literature.

#### PROFESSOR SCHOENFELD.

Instruction in this department has, as its primary object, a thorough knowledge of the grammar and familiarity with the literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

1. Review of elementary grammar (Otis); accurate training in phonetics and translation into German; beginning of conversation; readings from the best German prosaists and poets. Three hours.

2. German syntax; extensive translation into German; selected stories; beginning of classical reading and literature; elements of German history. Three hours.

3. Study of the principal difficulties of the language; idioms, synonyms (Sanders' *Hauptschwierigkeiten der deutschen Sprache*); German essays; literature of the second German Blüte periode; German history; extensive reading from the classics. Three hours.

4. Elements of philology; survey of German literature and its relation to the other Germanic peoples; history of the old and the new German Empire; lectures in German; extensive classical reading; introduction into the *Nibelungen Lied* and the *Gudrun Saga*. Three hours.

### Greek.

#### PROFESSOR HUNTINGTON.

In this department instruction is given in the Greek Language and Literature. The following books are used as text-books or for ref-

erence: Goodwin's and Hadley's Greek Grammars, Allinson's Greek Prose Composition, and Smith's History of Greece.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering English into Greek, and especially English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kühner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's or Long's or Ginn and Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Grote's or Curtius' History of Greece are recommended to students in all the classes.

1. Homer; Herodotus. Three hours.
2. Xenophon (*Memorabilia*); Lucian. Three hours, first term.
3. Isocrates and Lucian. Three hours, second term.
4. Sophocles, Euripides, Thucydides and Demosthenes. Three hours.
5. Plato and Aeschylus, or Aristophanes. Two hours.

### History.

#### PROFESSOR SWISHER.

The required work in History extends through the Sophomore year, and embraces a careful survey of the more important facts of Ancient and Mediaeval History in their relation of cause and effect. It is designed almost exclusively as a preparation for the fuller election of the two following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the Graduate School. The work is conducted by means of text-books, lectures, reading, and reports, in all of which it is sought to familiarize the student with original sources.

1. Ancient History. Three hours, one term.
2. Mediaeval History. Three hours, one term.
3. American History during the Colonial and Revolutionary periods. Three hours, first term.



4. American History from the close of the Revolution to the present time. Three hours, second term.

5. English History to the Congress of Vienna. Three hours, one term.

6. Continental History. The Renaissance Movement and the Reformation through the Catholic Reaction. Three hours, one term.

7. The Period of Louis XIV and the antecedents of the French Revolution. Three hours, one term.

8. Europe during the French Revolution and the Napoleonic wars. Three hours, one term.

9. Political History of Continental Europe since the Congress of Berlin. Three hours, one term.

10. English History during the reign of the present Queen. Three hours, one term.

### Latin.

#### ACTING PROFESSOR BROOKES.

In this department instruction is given in the Latin Language and Literature. In all the courses the study of the Latin Grammar, the writing of exercises, original and selected, and slight reading are required; in course 4, lectures are given upon Pedagogics; and to give practical illustration of the principles and suggestions thus presented, the students are from time to time called to the chair and required to conduct the recitation.

The following works are recommended: Grammars: Harkness' (text-book), Allen and Greenough's, Peters', Madvig's, Gildersleeve and Lodge's, Bennett's; Lexicons: Harper's, White's English-Latin; Roman Literature: Cruttwell's, Wilkins'; Classical Atlas: Ginn & Co.'s or Klepert's; Histories: Merivale's, Allen's, Meyers', Gibbon's. In all the courses selections from the Latin authors for private reading and examination are prescribed and the study of Roman Literature is pursued.

1. Ovid, Livy, Horace (*Odes*). Three hours.

2. Horace (*Satires* and *Epistles*), Cicero (*De Senectute* and *Amicitia*), Pliny (*Letters*), Plautus (*Captivi*). Three hours, one term.

3. Cicero (*Letters*), Tacitus (*Germania*), Roman Antiquities. Three hours, one term.

4. Tacitus (*Agricola* and *Annals I.*); Seneca, Juvenal, Curtius Rufus; Lucretius; annotations by the students upon the authors read. Three hours.

5. Persius; Quintilian; Essays upon Roman Literature. One hour.

6. Cicero (*De Finibus*), Social Life of the Romans. One hour.

### Mathematics.

#### PROFESSOR GORE.

In this department instruction is offered in twelve courses.

1. Solid Geometry; Wells' Revised Geometry. Three hours, for two months.

2. Algebra, including determinants; Taylor's Algebra. Three hours, for three months.

3. Plane Trigonometry; Wells' Trigonometry. Three hours, for two months.

4. Spherical Trigonometry; Wells' Trigonometry. Three hours, for two months.

5. Analytic Geometry; Nichols' Analytic Geometry. Three hours, for four months.

6. Theory of Equations; Chapman's Theory of Equations. Three hours, for two months.

7. Differential and Integral Calculus, Taylor. Three hours, for five months.

8. Differential Equations; lectures, notes by Professor Gore. Three hours, for three months.

9. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours, for one term.

10. Elliptic Functions, Baker. Two hours, for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large num-

ber of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical applications is insisted upon.

#### OPTIONAL COURSES.

11. Analytical Mechanics. One hour.

12. Theory of Probabilities, with Applications to Least Squares; Lectures, notes by the professor. One hour.

### Philosophy.

#### PROFESSOR STERRETT.

The special studies in this department are pursued in the two upper classes.

1. Logic. (Junior elective.) Jevons-Hill (*Elements of Logic*) is used as a text-book. One hour.

2. The first term is given to the study of Psychology, the aim being to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations.

Dewey and Harris are used as hand-books, with lectures, themes, and constant reference to the leading works on Psychology. Three hours.

The second term is given to (1) the study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-books—Schwegler and Weber; (2) the statement and discussion of the fundamental problems of philosophy. Three hours.

3. The Senior Class spends the first half of the year in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means

of lectures and discussions. This is followed by a constructive theory of ethics. McKenzie's *Manual of Ethics*, Dewey's *Outlines of Ethics*, and Muirhead's *Elements of Ethics* are put into the hands of the students for use. Three hours.

A course of lectures is also given on the fundamental postulates, concepts, and principles of Christian Ethics.

. This is followed by a six weeks' course on the Philosophy of History.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon) and for attendance on the course of papers and discussions before *The Society for Philosophical Inquiry*, meeting at the University every Tuesday afternoon. The program of the Society for the current year is the critical study of Kant's *Critique of Pure Reason*.

#### COURSES, ALTERNATE AND ELECTIVE.

4. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. One hour, first term.

5 (a). History of Ancient Philosophy. Lectures, with study of some of the text, and *Zeller's History*. Three hours, second term.

5 (b). History of Modern Philosophy, alternating with (5a) Lectures, with study of text of several systems and with reference to Falkenburg and Windelband. Three hours, second term.

6. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. *Painter and Rosenkranz*. Elective. One hour, second term.

7. The Metaphysics of Ethics. Study of Green's *Prolegomena to Ethics*. One hour, second term.

#### Physics.

#### PROFESSOR HODGKINS.

1. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and

**Electricity.** The lectures are illustrated by experiments and are based on Gage's Principles of Physics. Three hours.

2. An advanced course on General Physics. This is a theoretical and mathematical course and it requires a thorough acquaintance with the phenomena of Physics. Three hours.

3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course 1. Lectures on physical theories and on laboratory methods are given from time to time. Topics for study and discussion are assigned to the whole class, and to different members of the class are assigned subjects upon which to prepare special reports. Three hours.

4. A lecture and laboratory course in Magnetism and Electricity. Three hours.

5. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three hours.

6. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three hours.

#### **Political Science, Including Politics, Economics, Jurisprudence.**

PROFESSOR LODGE.

MAJOR J. W. POWELL.

DOCTOR O. T. MASON.

PROFESSOR L. F. WARD.

The studies in this department are designed to furnish the learner with an account of the genesis, development, and growth of political institutions. In all the branches pursued the method is comparative. Particular pains are taken to send students to the original sources of information as far as possible. To this end the class are constantly called upon to make use of the unequalled facilities of the Capital City for historical research. The archives of the Department of State are utilized to bring the student into direct contact with the original documents of American history.

## PROFESSOR LODGE.

1. The Development of the English Constitution; lectures; collateral reading; studies in Gardiner, Freeman, Stubbs, Gneist, and Boutmy. Two hours, for three months.

2. The History of French Political Institutions; lectures; studies in Guizot, Taine, and Sir James Stephens. Two hours, for three months.

3. The Evolution of American Political Ideas; lectures; studies of our history in its sources; collateral reading in the standard American historians and in C. E. Steven's *Sources of the Constitution*. Two hours, for three months.

4. Political Economy; text-book, Hadley; studies in socialism and communism, co-operation, and other current economic problems. Three hours.

5. The History of Political Economy in Europe; lectures; studies in Blanqui. One hour, for one term.

6. The Economic History of the United States; lectures; studies in Wells, Sumner, and Taussig. One hour, for one term.

7. The Constitutional Law of the United States; text-books, Cooley and Bryce, with frequent studies in Elliot's Debates, the Federalist, Bancroft's Formation of the Constitution, Marshall, Story, Pomeroy, and Von Holst. Two hours.

8. International Law; text-books, Gallaudet and Lawrence; lectures on the History of the Law of Nations; studies in Maine, Wheaton, and Calvo. One hour.

9. The Theory of the State; text-books, Histoire de la Science Politique, Janet; History of the Science of Politics, Pollock; The Theory of the State, Bluntschli; studies in Montesquieu, Hobbes, Locke, and Woolsey. Two hours.

10. History of Civilization, a course of lectures on history, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies in primitive society, and are followed by a rapid sur-

vey of the "civilizing stream" in its passage from Egypt through Assyria, Judea, Phoenicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America. Two hours.

MAJOR J. W. POWELL.

11. Culturgeschichte.

DOCTOR O. T. MASON.

12. Origins of Invention.

PROFESSOR L. F. WARD.

13. Sociology.

Romance Languages

PROFESSOR RAMSEY.

DOCTOR SOTELDO.

FRENCH LANGUAGE AND LITERATURE.

1. During the first term the class undergoes a thorough drill in pronunciation and becomes familiar with the spoken language. In the study of the grammar especial stress is laid upon acquiring a readiness in applying the principles learned, and to this end a large number of graded exercises are rendered, both orally and in writing, into French. At least twice a month a talk on some simple topic is given in French, and the class is required to render portions of it into English. During the last term the students devise exercises based upon portions of the texts read in class. Three hours.

Text-books: Keetel's Elementary French Grammar; Stern-Méras, *Étude Progressive de la Langue Française*; Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary); Labiche et Delacour, *Les Petits Oiseaux*.

2. The first term is devoted mainly to a review of the grammar, as presented by a more complete text-book, with abundant exercises in both oral and written translation. During the remainder of the year

the syntax is carefully studied, and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. At least two hours per month are devoted to French conversation. Three hours.

Text-books: Whitney's *Practical French Grammar*; Rouller's *First Book of French Composition*; Lacombe, *Petite Histoire du Peuple Français*; Mérimée, *Colomba*; Achard, *Le Clos Pommier*; de Maistre, *Les Prisonniers du Caucase*.

3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Fortier's *Histoire de la Littérature Française* is used during the first term as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally the class is instructed in the broader principles of rhetoric and style. During the second term the students read and summarize some representative work of the Mediaeval and Classic periods. Three hours.

Text-books: Fortier, *Histoire de la Littérature Française*; Corneille, *Le Cid*; Racine, *Athalie*; La Fontaine, *Fables Choies*; Walter's *Classic French Letters*.

4. The study of the literature is continued in this year largely by the reading of texts, the students writing criticisms in French of the works that pass under their notice. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from representative works of the present century. An effort is made to have several lectures upon literary themes delivered in French by persons not connected with the University. Three hours.

Text-books: Pellissier, *Mouvement Littéraire au XIX<sup>me</sup> siècle*; texts as required.

#### SPANISH LANGUAGE AND LITERATURE.

(Senior elective; requirements for admission: Latin, 1; French 1 and 2.)

The study of the language is taken up at the first elements, especial stress being laid upon the acquisition of a correct pronunciation. The principles of the grammar and syntax are studied and



enforced by the translation of exercises into Spanish. The class is familiarized from the outset with the spoken language by means of descriptive talks upon simple topics, and later by its use as the medium of instruction. Three hours.

Text-books: Ramsey's Text-Book of Modern Spanish; Ramsey's Elementary Spanish Reader.

#### ITALIAN LANGUAGE AND LITERATURE.

(Senior elective; requirements for admission: Latin 1 and 2; French 1 and 2.)

The instruction is intended to give the students a good pronunciation, the essentials of grammar, a fair amount of vocabulary, and an ability to read easy prose at sight. After the grammatical rudiments have been mastered and impressed by written and oral translation of exercises, the class passes to the reading of connected texts. Three hours.

Text-books: Sauer's Italian Grammar; de Amicis, *Cuore*; Barrili, *Una Notte Bizarra*; Gherardi del Testa, *L'oro e l'orpello*.

#### Admission.

The session of 1898-99 will open September 28, 1898.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

#### I.

##### ADMISSION TO COURSES LEADING TO DEGREES.

Students from schools of known excellence are admitted to the Freshman Class, without examination, on the certificate of the principals of those schools, showing that the requirements for admission have been complied with. Upon application the Dean of the College furnishes blank forms for such certificates.

The regular examination for admission to the Freshman Class is held, in the main building of the University, on Friday and Satur-

day, May 27, 28, 1898. A second examination is held at the beginning of the College year, on Monday and Tuesday, September 26, 27, 1898.

The following is the schedule for both examinations:

First day: 9.00-10.30, English.

10.30-12.00, Latin.

12.30- 2.00, Greek; Solid Geometry.

2.00- 3.30, French.

Second day: 9.00-10.30, German.

10.30-12.00, Physics; Chemistry.

12.30- 2.00, Algebra.

2.00- 3.30, Plane Geometry.

The College is prepared to appoint examinations in any city, or at any school where the number of applicants or the distance from Washington may warrant it. Correspondence on this subject should be addressed to the Dean of the College.

Unless admitted by certificate every undergraduate for a degree is required to pass an examination.

Candidates for admission to the course leading to the degree of Bachelor of Arts are examined in English, Greek, Latin, French or German, Algebra, and Plane Geometry.

Candidates for admission to the course leading to the degree of Bachelor of Science are examined in English, Algebra, Plane Geometry, Solid Geometry, Physics or Chemistry, and in two languages, one of which must be French or German.

Requirements for admission to the several departments are as follows:

#### ENGLISH.

Candidates are expected to be familiar with the elements of Rhetoric, and no candidate will be accepted whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Practice.*—The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of

examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is to test the candidate's power of clear and accurate expression. In place of a part or the whole of this test, the candidate may be allowed to present an exercise-book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination are:

In 1898: Milton's *Paradise Lost*, Books i and ii; Pope's *Iliad*, Books i and xxii; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

In 1899: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

In 1900: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxi, and xxiv; Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; DeQuincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

**2. Study and Practice.**—This part of the examination requires a more careful study of each of the works named.

It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are:

In 1898: Shakespeare's *Macbeth*; Burke's *Speech on Conciliation with America*; De Quincey's *The Flight of a Tartar Tribe*, and Tennyson's *The Princess*.

In 1899: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

In 1900: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

**GREEK.**

1. Goodwin's or Hadley's Greek Grammar.
2. Goodwin's Greek Reader, or Xenophon's Anabasis, Books 1-4.
3. First three books of Homer's Iliad.
4. Jones's Greek Prose Composition.
5. Myers' or Oman's History of Greece.

**LATIN.**

1. Latin Grammar.
2. Four books of Caesar's Commentaries.
3. Six of Cicero's Orations.
4. First six books of Vergil's Aeneid.
5. Sallust's Catiline (in part).
6. Latin composition.
7. Allen's or Myers' History of Rome.

**FRENCH.**

1. The elements of French grammar.
2. The ability to read at sight easy prose.

**GERMAN.**

1. The elements of German grammar.
2. The ability to read at sight easy prose.

**MATHEMATICS.**

1. Algebra: Through Quadratic Equations.
2. Plane Geometry.
3. Solid Geometry (for the degree of Bachelor of Science).

**PHYSICS.**

Elementary Physics. Carhart and Chute's Physics, Avery's School Physics, Gage's Introduction to Physical Science, or Hall and Bergen's Text-book of Physics will give suitable preparation.

Both text-book study and laboratory work will be expected.

## CHEMISTRY.

Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation.

## II.

## ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments, who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study by the head of the department; they must be familiar with the subjects preliminary to the studies which they wish to pursue.

Every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections not less than three distinct departments, with at least twelve recitations or lectures a week. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

No one is admitted as a special student who has within four months of the time of his application been rejected by the Committee on Admissions as a regular student, or has within that time become deficient as a regular student.

## III.

## ADMISSION TO ADVANCED STANDING.

Candidates for admission to an advanced class in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued elsewhere in colleges of high rank.

**NOTE.**—No student is permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty, and no student, without permission of the Faculty, may make a new choice of studies during any single term. *This rule is general.*

### Degrees.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "Graduate School" in this Catalogue.

#### COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF ARTS.

(The figures refer to the numbers of the courses in the several departments of the College, as previously described.)

##### FRESHMAN YEAR.

English, 1, 4.  
Greek, 1.  
Latin, 1.

French, 1; or  
German, 1.  
Mathematics, 1, 2, 3.

##### SOPHOMORE YEAR.

Greek, 2, 3; or  
Latin, 2, 3.  
French, 2; or  
German, 2.

History, 1, 2.  
English, 2, 3.  
Chemistry, 1; or  
Physics, 1.

##### JUNIOR YEAR.

Greek, 4; or  
Latin, 4.  
Elective, 9 hours a week.

Philosophy, 1, 2.

##### SENIOR YEAR.

Political Philosophy, 4.  
Elective, 9 hours a week.

Philosophy, 3.

#### COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

##### FRESHMAN YEAR.

English, 1, 4.  
French or German, 1.  
Chemistry, 1.

Mathematics, 1, 2, 3.  
Physics, 1.

**SOPHOMORE YEAR.**

French or German, 2.  
Mathematics, 4, 5, 6.  
History, 1.

Chemistry, 2.  
Physics, 2.

**JUNIOR YEAR.**

Mathematics, 7, 8.  
Chemistry, 3; or  
Elective, 9 hours a week.

Physics, 3.

**SENIOR YEAR.**

Elective, 15 hours a week.

**Examinations.**

At the end of each term, examinations of all the classes of all the departments are held in the studies of that term.

The results of the term examinations are combined with those of the daily recitations of the student during the term, in order to ascertain his academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and failing to do so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement. In order to graduate, students must obtain at least 75 *per cent.* in the final examinations on all of the subjects.

Examinations for prizes are concluded three weeks before the end of each scholastic year.

**Annual Prizes.**

Besides the honors and degrees conferred in the regular course, prizes are annually offered as rewards for special excellence in particular branches of study.

The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. These prizes are awarded by a committee selected by the Faculty for this purpose and are publicly delivered at the Annual Commencement.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from the Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations to The Columbian College.

The Class of '96 James Macbride Sterrett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees are allowed to compete.

#### **Prizes in 1896-97.**

**Staughton Prize, Mary Isabel Kelly.**

**Elton Prize, Mary Isabel Kelly.**

**Ruggles Prize, Clara Mary Upton.**

**Munroe Prize, Grace Isabela Ross.**

**Gore Prize in Parliamentary Law, Charles Kilbourne Robinson.**

**James Macbride Sterrett, Jr., Prize in Physics, Anna Campbell Kelton.**

**First Davis Prize in Elocution, Charles Kilbourne Robinson.**

**Second Davis Prize in Elocution, Edmund Kemper Broadus.**



### **Annual Commencement.**

The Annual Commencement of the College is held on the Wednesday nearest the first of June.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any Department are publicly delivered on the same day.

### **Public Worship.**

Brief devotional exercises, which all students are expected to attend, are held daily in the College Chapel.

### **Library Hours.**

The College Library is open every day from 9 o'clock a. m. to 10 p. m., for study and inquiry, as well as for the distribution of books. A reading-room, provided with the leading reviews, periodicals, and newspapers, is maintained by the Alumni for the use of students and graduates.

The Libraries of Congress and of the various Departments of the Federal Government are accessible to students for research in any special line of studies.

### **Literary Society.**

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

### **Lectures.**

Courses of Lectures in Literature, Art, and Science are organized every year by the authorities of the University. These lectures are open to all the classes, and to the public; tickets of admission may

be had on application. Lectures on Science, under the auspices of the Scientific Societies of Washington, whether delivered in the Lecture Hall of the United States National Museum or in the Hall of the University, are open to all students of the University.

Mention of Lectures delivered during the present session is made elsewhere in this Catalogue.

### General Regulations.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees, and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered to parents or guardians at the end of each term.

### College Expenses.

1. Admission Fee (paid but once, on entrance).....	\$10 00
2. Tuition for the year in three or more departments.....	100 00
3. Tuition for the year in two departments.....	70 00
4. Tuition for the year in one department.....	50 00
5. Laboratory work in Chemistry, 2 and 3 (material) each.	10 00
6. Final Diploma Fee .....	10 00

These charges cover all expenses.

Bills are payable semi-annually, in advance.

### Scholarships.

The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on the best scholar in the Washington High School. This scholarship continues throughout the College course, and students on this foundation pay semi-annually, in advance, a fee of eight dollars.

A recent ordinance of the Corporation increases by six the number of scholarships, to be distributed annually among the High Schools

of Washington, the successful candidates being determined by a competitive examination held at the University about the first of June of each year. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become Mates or Masters in the Merchant Marine Service of the United States, and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

### **Rooms and Board.**

Desirable rooms, convenient to the University buildings, are obtainable at prices ranging from \$5 to \$15 per month, and good board is offered at from \$15 to \$20 per month. A list of eligible boarding-houses will, upon request, be furnished by the Registrar of the University.

For further information concerning The Columbian College, application may be made to

A. J. HUNTINGTON, *Dean,*  
*The Columbian College, Washington, D. C.*

## SCHEDULE OF RECITATIONS\* FOR THE SESSION OF 1898-'99.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Freshman { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.15 { 1.15- 2.15	Mathematics. Physics. Chemistry. French. German.	Greek; Physics. French. English (1).	Mathematics. English (4). Chemistry. Latin. German.	Latin, Greek; Physics. Chemistry. German. English (1).	Mathematics. Latin. French. Greek.
	Latin. Physics (A. B.) Chemistry English (3). Greek; Physics. History.	English (2). Physics (A. B.). Mathematics. German. French.	Latin. Mathematics. Chemistry. English (3). French. History.	German. Physics (A. B.). Chemistry. Greek; Physics. History.	French. Greek; Physics. Latin. German. Mathematics.
Sophomore. { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.15 { 1.15- 2.15 2.15- 3.15	German. Latin. Psychology History. English (6). Mathematics.	Logic. Political Philosophy French { German Physics. Latin; Physics. English (8).	German. Latin. { Greek. Physics (2 hours). Mathematics. History. French.	English (6). Latin. Psychology. French. Psychology. History.	Political Philosophy. German. Mathematics. English (8). Greek; Physics.
	Ethics. Political Economy. Latin. Theory of the State. Mathematics. History of Civilization. German	Constitutional Law. Ethics. German. English (7); Physics (2 hours). History. { French. Bibl. Literature. English (8). International Law.	Political Economy. Greek; Physics. Theory of the State. { French. Bibl. Literature. English (7). History of Civilization. Mathematics, Elective.	Ethics. Political Economy. Mathematics, Elective. History, Elective. { Bibl. Literature. French. Constitutional Law. History.	Latin. English (7). { German. Physics (2 hours). English (8).
Junior. { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.15 { 1.15- 2.15 2.15- 3.15					
Senior. { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.15 { 1.15- 2.15 2.15- 3.15 3.15- 4.15					

\* Arrangements for classes in Italian and Spanish will be made upon application.

**Students.****CANDIDATES FOR DEGREES.**

<b>Name.</b>	<b>State.</b>	<b>Address.</b>
<b>Altschu, J Henry</b> .....	<b>D. C.</b> .....	<b>1334 G Street.</b>
<b>Ashford, Horace Frost</b> ....	<b>D. C.</b> .....	<b>1763 P Street.</b>
<b>Beatty, J. William</b> .....	<b>Kans.</b> ....	<b>113 G Street.</b>
<b>Berry, George Magruder</b> ...	<b>D. C.</b> .....	<b>720 Twenty-first Street.</b>
<b>Birch, Blanche L.</b> .....	<b>R. I.</b> .....	<b>1231 Thirty-first Street.</b>
<b>Bradford, Elise</b> .....	<b>Md.</b> .....	<b>1522 P Street.</b>
<b>Brown, Lorenzo Starr, Jr.</b> ...	<b>Va.</b> .....	<b>1308 Roanoke Street.</b>
<b>Buxton, Bronson C.</b> .....	<b>Va.</b> .....	<b>Falls Church, Va.</b>
<b>Chase, George G.</b> .....	<b>Kans.</b> ....	<b>The Cairo.</b>
<b>Clark, Reed Palge</b> .....	<b>N. H.</b> ....	<b>1424 Eleventh Street.</b>
<b>Clark, Thatcher</b> .....	<b>N. Y.</b> ....	<b>1628 Riggs Place.</b>
<b>Coburn, Henry Clay, Jr.</b> ...	<b>D. C.</b> ....	<b>2111 G Street.</b>
<b>Cockerille, Paul</b> .....	<b>D. C.</b> ....	<b>Takoma Park, D. C.</b>
<b>Cutter, E. Kendall</b> .....	<b>D. C.</b> ....	<b>1522 K Street.</b>
<b>Domer, Harry Tennyson</b> ...	<b>Pa.</b> .....	<b>738 Eleventh Street.</b>
<b>Draper, Annie Eliza</b> .....	<b>D. C.</b> ....	<b>807 E Street S. W.</b>
<b>Faris, George Mortimer</b> ....	<b>Ind.</b> ....	<b>208 A Street S. E.</b>
<b>Franzoni, Cecillia</b> .....	<b>D. C.</b> ....	<b>605 I Street.</b>
<b>French, Walter E.</b> .....	<b>D. C.</b> ....	<b>City Post Office, Box 27.</b>
<b>Frisby, Florence E.</b> .....	<b>D. C.</b> ....	<b>1607 Thirty-first Street.</b>
<b>Fuller, Charles F.</b> .....	<b>D. C.</b> ....	<b>612 L Street N. E.</b>
<b>Fuller, Hubert Bruce</b> .....	<b>Conn.</b> ....	<b>1615 Florida Ave.</b>
<b>Gilliss, William Weir</b> .....	<b>Wyo.</b> ....	<b>1454 Rhode Island Ave.</b>
<b>Gillmore, Quincy A.</b> .....	<b>D. C.</b> ....	<b>1832 Jefferson Place.</b>
<b>Green, G. Emery</b> .....	<b>Mass.</b> ....	<b>1123 Seventeenth Street.</b>
<b>Hance, Eleanor Wilson</b> ....	<b>N. J.</b> ....	<b>Cherrydale, Va.</b>
<b>Harlan, Quiroff</b> .....	<b>Md.</b> ....	<b>14 Sixth Street N. E.</b>
<b>Harlan, Rolvix</b> .....	<b>Md.</b> ....	<b>1229 Tenth Street S. E.</b>
<b>Haws, Samuel N.</b> .....	<b>Tenn.</b> ....	<b>721 Twelfth Street.</b>
<b>Hinman, Mary Squire</b> .....	<b>Ohio</b> ....	<b>1307 Fourteenth Street.</b>
<b>Hobson, Alphonso Augustus</b> ..	<b>Va.</b> .....	<b>1417 Sixth Street.</b>
<b>Hoover, J. Carroll</b> .....	<b>Pa.</b> .....	<b>63 R Street.</b>
<b>Jacobs, Frances Mabel</b> ....	<b>D. C.</b> ....	<b>1327 Eleventh Street.</b>
<b>Keller, Charles B.</b> .....	<b>N. Y.</b> ...	<b>1122 G Street S. E.</b>
<b>Kelly, Gilbert Walker</b> .....	<b>D. C.</b> ....	<b>2702 Thirteenth Street.</b>

Name.	State.	Address.
Knight, Evelyn Estelle.....	D. C.....	1106 Maryland Ave. S. W.
Lee, Helen.....	Maine...	1634 Riggs Place.
Lindsey, Melville Wilmer...	Va.....	Alexandria, Va.
Lynch, Sara P.....	D. C.....	Brookland, D. C.
Manning, William S.....	W. Va...	1511 Rhode Island Ave.
Mason, Selma M.....	Va.....	1825 H Street.
Matson, John W.....	D. C.....	2144 H Street.
Maynard, Colton.....	D. C.....	1407 Fifteenth Street.
McKelden, Elsie Madeline..	D. C.....	724 Fifth Street N. E.
Merrill, A. Luella.....	Vt.....	1330 Eleventh Street.
Metcalf, Gertrude E.....	Maine...	1631 Marion Street.
Mitchell, William.....	Wis.....	32 B Street N. E.
Murray, Lucy Emory.....	Md.....	1437 R Street.
Newlands, Frances Clara...	Nev.....	Chevy Chase, Md.
Norris, Etheldreda Lord....	N. J.....	710 Third Street.
North, James.....	D. C.....	1409 N Street.
Parkinson, Elsie Elizabeth..	Mich.....	806 Ninth Street N. E.
Peelle, Stanton C.....	D. C.....	The Concord.
Pennywitt, Eunice V.....	Va.....	Glencarlyn, Va.
Ray, Preston Blair.....	Md.....	Forest Glen, Md.
Raybold, George Irving.....	D. C.....	820 N. O. Ave. S. E.
Robinette, Rosalie A.....	Pa.....	301 Maryland Ave. N. E.
Robinson, Nathaniel E., Jr..	D. C.....	Brightwood, D. C.
Rogers, Samuel H.....	Va.....	721 Eighth Street.
Sanderlin, Georgie.....	N. C.....	1008 N Street.
Sherman, Ella Lillian.....	Cal.....	Cleveland Park, D. C.
Sherman, John, Jr.....	Cal.....	Cleveland Park, D. C.
Slaybaugh, George Eldred...	D. C.....	1502 R Street.
Smith, Harry B.....	D. C.....	314 A Street N. E.
Smith, Ina A.....	Vt.....	1401 Thirty-first Street.
Sterrett, Henry Hatch D....	D. C.....	Springland, D. C.
Sterrett, Robert.....	D. C.....	Springland, D. C.
Sterrett, William D.....	D. C.....	Springland, D. C.
Storm, Christopher G.....	Wis.....	9 K Street N. E.
Stuart, Albert Rhett.....	S. C.....	1226 Fifteenth Street.
Thönssen, Pearl Edna.....	Texas...	1523 Fifth Street.
Underwood, Norman.....	D. C.....	1407 Tenth Street.
Underwood, Wilbur W.....	D. C.....	1407 Tenth Street.
Ware, William George.....	Mass....	1758 Corcoran Street.
Whitney, Carl E.....	N. Y.....	736 Third Street.

**Special Students.**

<b>Name.</b>	<b>State.</b>	<b>Address.</b>
<b>Baker, Kathryn S.....</b>	<b>Va.....</b>	<b>Alexandria, Va.</b>
<b>Barney, Natalie Clifford....</b>	<b>D. C.....</b>	<b>1626 Rhode Island Ave.</b>
<b>Beard, Edward Abbot.....</b>	<b>D. C.....</b>	<b>1305 N Street.</b>
<b>Chilton, George.....</b>	<b>Texas.....</b>	<b>Varnum Hotel</b>
<b>Concklin, Amy Louise.....</b>	<b>N. Y.....</b>	<b>1132 Twenty-fifth Street.</b>
<b>Dart, Ruth Devereux.....</b>	<b>Conn.....</b>	<b>1416 Rhode Island Ave.</b>
<b>Dawson, Lemuel Orak.....</b>	<b>Ala.....</b>	<b>1320 Sixteenth Street.</b>
<b>Dowe, George M.....</b>	<b>D. C.....</b>	<b>1742 Riggs Place.</b>
<b>Everett, Frank Norton.....</b>	<b>Mass.....</b>	<b>1320 Columbia Street.</b>
<b>Ford, S. Carroll.....</b>	<b>D. C.....</b>	<b>364 Second Street S. E.</b>
<b>Foster, Hugh G.....</b>	<b>Cal.....</b>	<b>1405 I Street.</b>
<b>Gannett, Farley.....</b>	<b>D. C.....</b>	<b>1881 Harewood Ave.</b>
<b>Hadley, Mary L.....</b>	<b>N. Y.....</b>	<b>1554 Howard Ave.</b>
<b>Halford, Dean.....</b>	<b>Mass.....</b>	<b>1622 Twenty-second Street.</b>
<b>Henderson, F. N.....</b>	<b>Md.....</b>	<b>Rockville, Md.</b>
<b>Hörstmann, Ethel Dallas....</b>	<b>Pa.....</b>	<b>1710 Rhode Island Ave.</b>
<b>Janney, Laurence A.....</b>	<b>D. C.....</b>	<b>1671 Thirty-first Street.</b>
<b>Lamson, Eleanor A.....</b>	<b>D. C.....</b>	<b>Anacostia.</b>
<b>Larcombe, James A.....</b>	<b>Md.....</b>	<b>Seabrook, Md.</b>
<b>Main, Charles W.....</b>	<b>Md.....</b>	<b>1617 Seventeenth Street.</b>
<b>McKenney, H. J.....</b>	<b>Md.....</b>	<b>Frederick, Md.</b>
<b>Nott, Marjorie.....</b>	<b>D. C.....</b>	<b>826 Connecticut Ave.</b>
<b>Pace, Roy Bennett.....</b>	<b>Va.....</b>	<b>1608 Thirteenth Street.</b>
<b>Ross, Grace I.....</b>	<b>D. C.....</b>	<b>77 L Street N. W.</b>
<b>Stanton, Jessie.....</b>	<b>Colo.....</b>	<b>100 Seventh Street N. E.</b>
<b>Stevenson, Hugh T.....</b>	<b>D. C.....</b>	<b>Anacostia.</b>
<b>Swartwout, Hattie Mabel..</b>	<b>Ill.....</b>	<b>400 Spruce Street.</b>
<b>Ware, William George.....</b>	<b>Mass.....</b>	<b>1758 Corcoran Street.</b>
<b>Wescott, Edna R.....</b>	<b>Md.....</b>	<b>918 Twenty-third Street.</b>
<b>Wright, Matilda D. ....</b>	<b>D. C.....</b>	<b>225 Thirteenth Street S. W.</b>
<b>Wright, S. J.....</b>	<b>Va.....</b>	<b>922 Massachusetts Ave.</b>

**Total.....106**

# THE CORCORAN SCIENTIFIC SCHOOL.

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## **The Faculty.**

**BENAIAH L. WHITMAN, D. D.,**  
President.

**HOWARD L. HODGKINS, PH. D.,**  
Dean, and Professor of Mathematics.

**CHARLES E. MUNROE, PH. D.,**  
Professor of Chemistry.

**REV. SAMUEL M. SHUTE, D. D.,**  
Emeritus Professor of English.

**J. HOWARD GORE, PH. D.,**  
Professor of Geodesy.

**THEODORE N. GILL, PH. D.,**  
Professor of Zoölogy.

**CLEVELAND ABBE, A. M., LL. D.,**  
Professor of Meteorology.

**HERMANN SCHOENFELD, PH. D.,**  
Professor of German.

**HARRY KING, LL. B.,**  
Professor of Drawing.

**GEORGE P. MERRILL, PH. D.,**  
Professor of Geology and Mineralogy.



ADOLPHUS W. GREELY,  
Professor of Geography.

JOSIAH PIERCE, JR., M. A.,  
Professor of Drawing and Applied Geometry.

ANDREW F. CRAVEN, PH. D.,  
Professor of Economics.

\*LOUIS AMATEIS,  
Professor of Fine Arts as Applied to Architecture.

EDWARD FARQUHAR, PH. D.,  
Professor of History.

FRANK A. WOLFF, PH. D.,  
Professor of Physics and Electrical Engineering.

F. LAMSON-SCRIBNER, B. S.,  
Professor of Botany.

J. C. HORNBLLOWER,  
Professor of Architecture.

C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

ELMER S. FARWELL, C. E.,  
Professor of Mechanical Engineering.

HENRY SIMPSON,  
Associate Professor of Architecture.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

FELIX FREYHOLD, C. E.,  
Professor of Civil Engineering and Applied Mathematics.

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\*Absent on leave.

## THE COLUMBIAN UNIVERSITY.

MARATHON M. RAMSEY, A. M.,  
Professor of Romance Languages.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English, and Secretary of the Faculty.

AINSWORTH R. SPOFFORD, LL. D.,  
Professor of Library Science.

ALBERT M. HILLIKER, B. D.,  
Professor of Philosophy.

HERBERT L. RICE, M. S.,  
Professor of Astronomy.

\*HENRY R. PYNE, A. M.,  
Assistant Professor of Latin and Greek.

WILBUR F. DALES, PH. D.,  
Acting Assistant Professor of Latin and Greek.

THOMAS J. D. FULLER, B. S.,  
Acting Professor of Fine Arts as Applied to Architecture.

**Instructors and Assistants.**

PETER FIREMAN, PH. D.,  
Instructor in Chemistry.

EMIL H. MEYER,  
Instructor in Fine Arts.

T. W. STANTON, PH. D.,  
Instructor in Paleontology and Stratigraphical Geology.

CLEVELAND ABBE, JR., A. B.,  
Instructor in Physiography.

HARRY T. NEWCOMB, LL. M.,  
Instructor in Statistics.

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\*Absent on leave.

**ERNEST L. THURSTON, C. E.,**  
**Instructor in Mechanical Drawing.**

**EDWARD A. MUIR, B. S.,**  
**Instructor in Machine Drawing.**

**H. GRANT HODGKINS, A. B.,**  
**Instructor in Mathematics.**

**HENDERSON PRESNELL,**  
**Instructor in Library Science.**

**WILLIAM P. CUTTER, B. S.,**  
**Instructor in Library Science.**

**DOMINGO A. USINA, C. E.,**  
**Instructor in Applied Mathematics.**

**HARRY A. PRESSEY, B. S.,**  
**Instructor in Civil Engineering.**

**CABELL WHITEHEAD, B. M.,**  
**Assistant in Assaying.**

**POWHATAN W. ROBERTSON,**  
**Assistant in Accounting.**

**CHARLES E. McNABB, LL. M.,**  
**Assistant in Business Law.**

**MINOTT E. PORTER, B. S.,**  
**Assistant in Geography.**

**A. KLAKRING,**  
**Assistant in Topographic Drawing.**

**THOMAS A. WILLIAMS, M. A.,**  
**Assistant in Botany.**

**THOMAS J. D. FULLER, B. S.,**  
**Assistant in Architecture.**

**THE COLUMBIAN UNIVERSITY.**

**C. LE ROY PARKER, M. S.,**  
**Assistant in General Chemistry.**

**JOHN H. THIGPEN, A. B.,**  
**Assistant in Qualitative Analysis.**

**FRED F. REISNER, B. S.,**  
**Assistant in the Physical Laboratory**

**THOMAS H. MEANS,**  
**Assistant in the Physical Laboratory**

**SHERIDAN FERBEE,**  
**Assistant in Fine Arts.**

**JULES MAILLET,**  
**Assistant in French.**

**Lecturers.**

**OTIS T. MASON, PH. D., LL. D.,**  
**Lecturer on Anthropology.**

**H. CARRINGTON BOLTON, PH. D.,**  
**Lecturer on History of Chemistry.**

**THOMAS M. CHATARD, PH. D.,**  
**Lecturer on Chemical Engineering.**

**WORTHINGTON C. FORD,**  
**Lecturer on Statistics.**

**GLENN BROWN,**  
**Lecturer on Sanitary Engineering.**

**CARROLL D. WRIGHT, LL. D.,**  
**Lecturer on Social Statistics.**

**LESTER F. WARD, A. M., LL. D.,**  
**Lecturer on Sociology.**

**GEORGE E. ROBER,**  
**Lecturer on Finance.**

**Standing Committees of the Faculty.**

*Committee on Advanced Standing.*

The DEAN, the SECRETARY, and Professor FARWELL.

*Committee on Library.*

Professors FARQUHAR, CUTTER, and PRESNELL.

*Committee on Examination Schedule.*

Professors RAMSEY, WILBUR, and FREYHOLD.

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The School of Science, established by the Trustees and Overseers of The Columbian University as a part of their University system of education, is called by the name of W. W. Corcoran in grateful recollection of his many benefactions to the University.

The exercises of the School begin Wednesday, September 28, 1898, and are held in the University Building (southeast corner of Fifteenth and H streets N. W.), which has been constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the full courses of study leading to the degree of Bachelor of Science, as described below, or they may take special courses in any of the departments.

Candidates for admission to the First Year Course should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of free-hand and Mechanical Drawing.

The following courses of study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements:

## COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

### FIRST YEAR.\*

(Common to all Courses.)

- |  |   |
|--|---|
| <p>†(8) Chemistry, 1, 6.<br/>General Chemistry; History of Chemistry.</p> <p>(2) Drawing, 1.<br/>Mechanical and Geometrical Drawing.</p> <p>(8) English, 1, 4.<br/>Rhetoric; English Literature.</p> | <p>(1) Fine Arts, 1.<br/>Free-hand Drawing.</p> <p>(2) Romance Languages, 1.<br/>French.</p> <p>(5) Mathematics, 1, 2.<br/>Algebra; Geometry.</p> |
|--|---|

### COURSE I—GENERAL.

#### SECOND YEAR.

- |   |   |
|---|---|
| <p>(2) German, 1.</p> <p>(8) Mathematics, 3, 4.<br/>Trigonometry; Analytic Geometry.</p> <p>Elective, eight hours a week.</p> | <p>(3) Mineralogy, 1.<br/>Descriptive Mineralogy.</p> <p>(3) Physics, 1.<br/>General Physics.</p> |
|---|---|

#### THIRD YEAR.

- |  |                       |
|--|-----------------------|
| <p>(2) Geology, 1.<br/>Systematic Geology.</p> <p>Elective, thirteen hours a week.</p> | <p>(2) German, 2.</p> |
|--|-----------------------|

#### FOURTH YEAR.

- |   |                                      |
|---|--------------------------------------|
| <p>(2) Astronomy, 1.<br/>General Astronomy.</p> <p>Elective, thirteen hours a week.</p> | <p>(2) Philosophy, 1.<br/>Logic.</p> |
|---|--------------------------------------|

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\* Students in Course XI will take Course 2 in Fine Arts (Architectural Drawing) in addition to the above.

† The numbers in parentheses give the number of hours or periods per week; the numbers following the subjects refer to the special topics in the various Departments of the Corecoran Scientific School.

## COURSE II—IN CIVIL ENGINEERING.

### SECOND YEAR.

- |  |   |
|--|---|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry and<br>Constructive Exercises. | (2) German, 1.  |
| (6) Engineering, 1, 6.<br>Surveying and Construc-<br>tion.                         | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (1) Fine Arts, 2.<br>Architectural Drawing.  | (3) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
|  | (3) Physics, 1.<br>General Physics.                           |

### THIRD YEAR.

- |  |   |
|--|---|
| (6) Applied Mathematics, 3, 6.<br>Mechanics; Graphical Sta-<br>tics and Constructive<br>Exercises. | (2) German, 2.  |
| (2) Geology, 1.<br>Systematic Geology.   | (6) Engineering, 3, 5.<br>Field-work; Water Sup-<br>ply, etc. |
|  | (2) Mathematics, 5.<br>Calculus.                              |

### FOURTH YEAR.

- |  |                                       |
|--|---------------------------------------|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials.                            | (1) Geodesy (1 term).                 |
| (2) Astronomy, 1.<br>General Astronomy.  | (1) Mathematics, 7.<br>Least Squares. |
| (1) Chemistry, 13.<br>Metallurgy of Iron.  | (2) Philosophy, 1.<br>Logic.          |
| (8) Engineering, 4, 7, 8.<br>Structures; Materials of<br>Engineering; Construct-<br>ive Exercises. |                                       |

## COURSE III—IN ELECTRICAL ENGINEERING.

### SECOND YEAR.

- |  |   |
|--|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry. | (5) Mechanical Engineering, 2, 5.<br>Machine Drawing and<br>Machine Problems. |
| (2) German, 1.                                       |   |

- (3) Mathematics, 3, 4.  
Trigonometry; Analytic  
Geometry.

- (§) Mineralogy, 1.  
Descriptive Mineralogy.  
(6) Physics, 1, 9.  
General Physics; Physical  
Laboratory.

## THIRD YEAR.

- (2) Applied Mathematics, 3.  
Analytical Mechanics.  
(2) Geology, 1.  
Systematic Geology.  
(2) German, 2.  
(2) Mathematics, 5.  
Calculus.

- (4) Mechanical Engineering, 4.  
Advanced Drawing.  
(9) Physics, 2, 3, 10, 14.  
Electricity; Laboratory.

## FOURTH YEAR.

- (3) Applied Mathematics, 4, 5.  
Hydraulics; Strength of  
Materials.  
(2) Astronomy, 1.  
General Astronomy.  
(1) Chemistry, 13.  
Metallurgy of Iron.  
(2) Mechanical Engineering, 10.  
Prime Movers.

- (2) Philosophy, 1.  
Logic.  
(11) Physics, 4, 5, 6, 12, 14.  
Theory and Application of  
Electricity; Advanced  
Laboratory; Inspection.

## COURSE IV—IN MECHANICAL ENGINEERING.

## SECOND YEAR.

- (2) Applied Mathematics, 1.  
Descriptive Geometry.  
(§) Chemistry, 10  
Laboratory.  
(2) German, 1.  
(3) Mathematics, 3, 4.  
Trigonometry; Analytic  
Geometry.

- (5) Mechanical Engineering, 2, 5.  
Machine Drawing; Ma-  
chine Problems.  
(§) Mineralogy, 1.  
Descriptive.  
(3) Physics, 1.  
General Physics.  
(§) Physics 9.  
Laboratory.



THIRD YEAR.

- |   |   |
|---|---|
| (3) Applied Mathematics, 3, 6.<br>Analytical Mechanics;<br>Graphical Statics. | (7) Mechanical Engineering, 3,<br>6, 7.<br>Machine Drawing; Kine-<br>matics; Graphical Dy-<br>namics. |
| (2) Geology, 1.<br>Systematic Geology.  | (6) Physics, 2, 3, 11.<br>Electricity; Laboratory.  |
| (2) German, 2.  |   |
| (2) Mathematics, 5.<br>Calculus.  |   |

FOURTH YEAR.

- |   |   |
|---|---|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials. | (13) Mechanical Engineering, 8,<br>9, 10, 11, 12.<br>Theory of Machines; Ma-<br>chine Design; Prime<br>Movers; Laboratory; In-<br>spection. |
| (2) Astronomy, 1.<br>General Astronomy.                                 | (2) Philosophy.<br>Logic.   |
| (1) Chemistry, 13.<br>Metallurgy of Iron.                               |   |

COURSE V—IN CHEMISTRY (A).

SECOND YEAR.

- |   |  |
|---|--|
| (2) Applied Mathematics, 2.<br>Descriptive Geometry.          | (1) Mechanical Engineering, 1.<br>Machine Drawing. |
| (5) Chemistry, 10.<br>Laboratory; General Prin-<br>ciples.    | (3) Mineralogy, 1.<br>Descriptive Mineralogy.      |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |  |

THIRD YEAR.

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|---|--|
| (15) Chemistry, 2.<br>Qualitative Analysis. | (2) Geology, 1.<br>Systematic Geology. |
|   | (2) German, 2.                         |

## FOURTH YEAR.

- |  |   |
|--|---|
| (16) Chemistry, 3, 5, 7, 13.<br>Quantitative Analysis; As-<br>sayings; Organic Chem-<br>istry; Metallurgy of<br>Steel. | (2) Astronomy, 1.<br>General Astronomy.<br>(2) Philosophy, 1.<br>Logic. |
|--|---|

## COURSE VI—IN CHEMISTRY (B).

## SECOND YEAR.

- |  |   |
|--|---|
| (2) Applied Mathematics, 2.<br>Descriptive Geometry.<br>(5) Chemistry, 10.<br>Laboratory; General Prin-<br>ciples.<br>(2) German, 1. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry.<br>(3) Mineralogy, 1.<br>Descriptive Mineralogy.<br>(3) Physics, 1.<br>General Physics. |
|--|---|

## THIRD YEAR.

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|---|--|
| (12) Chemistry, 2.<br>Qualitative Analysis.<br>(2) Mathematics, 5.<br>Calculus. | (2) Geology, 1.<br>Systematic Geology.<br>(2) German, 2.<br>(3) Physics, 2, 3.<br>Electricity. |
|---|--|

## FOURTH YEAR.

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|--|---|
| (2) Astronomy, 1.<br>General Astronomy.<br>(13) Chemistry, 3, 7, 13.<br>Quantitative Analysis; Or-<br>ganic Chemistry; Metal-<br>lurgy of Steel. | (2) Mathematics, 6, 7.<br>Differentials and Least<br>Squares.<br>(2) Philosophy, 1.<br>Logic. |
|--|---|

## COURSE VII—IN MATHEMATICS.

## SECOND YEAR.

- |   |   |
|---|---|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry.<br>(2) Civil Engineering, 1.<br>Surveying. | (2) German, 1.<br>(3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
|---|---|

- (2) Drawing, 2.  
Topographical Drawing.  
(2) Romance Languages, 2.  
French.

- (§) Mineralogy, 1.  
Descriptive Mineralogy.  
(3) Physics, 1.  
General Physics.

THIRD YEAR.

- (2) Applied Mathematics, 3.  
Analytical Mechanics.  
(2) Romance Languages, 3.  
French.  
(2) Geology, 1.  
Systematic Geology.  
(2) German, 2.

- (2) History, 1.  
American.  
(4) Mathematics, 5, 8, 9, 10.  
Calculus; Determinants;  
Quaternions; Analytic  
Geometry of Three Di-  
mensions.  
(3) Physics, 2, 3.  
Electricity.

FOURTH YEAR.

- (3) Applied Mathematics, 4, 5.  
(4) Astronomy, 1, 2.  
General and Mathematical  
Astronomy.  
(½) Geodesy, 1.  
(2) German, 3.  
(4) Mathematics, 6, 7, 11, 12.  
Differential Equations;  
Least Squares; Theory  
of Equations; History of  
Mathematics.

- (2) Philosophy, 1.  
Logic.  
(3) Physics, 4, 7.  
Mathematical Theory of  
Electricity; Mathemat-  
ical Physics.

COURSE VIII—IN METEOROLOGY.

SECOND YEAR.

- (2) Applied Mathematics, 2.  
Descriptive Geometry.  
(5) Chemistry, 10.  
Laboratory, General Prin-  
ciples.  
(2) German, 1.  
(3) Mathematics, 3, 4.  
Trigonometry; Analytic  
Geometry.

- (2) Meteorology, 1.  
Observational.  
(§) Mineralogy, 1.  
Descriptive Mineralogy.  
(8) Physics, 1.  
General Physics.

## THE COLUMBIAN UNIVERSITY.

## THIRD YEAR.

- |  |                                     |
|--|-------------------------------------|
| (2) Applied Mathematics, 8.<br>Analytical Mechanics. | (2) German, 2.                      |
| (2) Botany, 1.<br>Structural and Systematic.         | (2) Mathematics, 5.<br>Calculus.    |
| (2) Geology, 1.<br>Systematic Geology.               | (2) Meteorology, 2.<br>Climatology. |
|  | (3) Physics, 9.<br>Laboratory.      |

## FOURTH YEAR.

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|--|---|
| (2) Applied Mathematics, 4.<br>Hydraulics.                 | (2) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |
| (2) Astronomy, 1.<br>General and Spherical As-<br>tronomy. | (2) Meteorology, 3.<br>Special Topics.                              |
| (1) Geodesy.<br>Projections.                               | (2) Philosophy, 1.<br>Logic.  |
|  | (6) Physics, 11.<br>Laboratory.                                     |

## COURSE IX—IN GEOGRAPHY.

## SECOND YEAR.

- |  |   |
|--|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.       | (2) Geography, 1.<br>Physical.                                |
| (5) Chemistry, 10.<br>Laboratory; General Prin-<br>ciples. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Drawing, 2.<br>Topographic.                            | (3) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.                           |

## THIRD YEAR.

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|--|--------------------------------|
| (2) Botany, 1.<br>Structural and Systematic. | (2) Geography, 2.<br>Economic. |
|--|--------------------------------|

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|--|------------------------------------|
| (5) Engineering, 1, 2.<br>Surveying.   | (2) German, 2.                     |
| (2) Geology, 1.<br>Systematic Geology. | (2) Mathematics, 5.<br>Calculus.   |
|  | (3) Physics, 2, 6.<br>Electricity. |

FOURTH YEAR.

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|--|--|
| (2) Applied Mathematics, 4.<br>Hydraulics. | (1) Geodesy.   |
| (2) Astronomy, 1.<br>General Astronomy.    | (2) Mathematics, 6, 7.<br>Differential Equations and<br>Least Squares. |
| (2) Philosophy, 1.<br>Logic.               | (2) Meteorology, 2.<br>Climatology.                                    |
| Elective, six hours per week.              |  |

COURSE X—IN GEOLOGY AND MINERALOGY.

SECOND YEAR.

- |  |   |
|--|---|
| (2) Botany, 1.<br>Structural and Systematic. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Civil Engineering, 1.<br>Surveying.      | (8) Mineralogy, 1, 2.<br>Descriptive and Determin-<br>ative.  |
| (2) German.                                  | (8) Physics, 1.<br>General Physics.                           |

THIRD YEAR.

- |   |   |
|---|---|
| (12) Chemistry, 2.<br>Qualitative Analysis. | (2) German.   |
| (2) Geology, 1.<br>Systematic Geology.      | (2) Mineralogy.<br>Determinative and Crys-<br>tallographic. |
|   | (2) Zoölogy, 1, 2.  |

FOURTH YEAR.

- |   |                                      |
|---|--------------------------------------|
| (2) Astronomy, 1.<br>General Astronomy.   | (2) Philosophy, 1.<br>Logic.         |
| (2) Drawing, 2.<br>Topographical Drawing. | (1) Meteorology, 4.<br>Physiography. |

- |                      |                               |
|----------------------|-------------------------------|
| (2) Economics, 7.    | (2) Paleobotany.              |
| (2) Geology, 2.      | (2) Paleozoölogy.             |
| Applied Geology.     | (2) Special Lectures on Rock- |
| (1) Meteorology, 2.  | weathering and Sedimen-       |
| General Climatology. | tation, Field Methods, etc.   |

### COURSE XI—IN ARCHITECTURE.

#### SECOND YEAR.

- |                                 |                         |
|---------------------------------|-------------------------|
| (4) Applied Mathematics, 1.     | (2) German, 1.          |
| Descriptive Geometry.           | (3) Mathematics, 3, 4.  |
| (14) Architecture, 1, 4, 5, 10. | Trigonometry; Analytic  |
| History of Architecture;        | Geometry.               |
| Architectural Drawing           | (2) Mineralogy, 1.      |
| and Design; Building            | Descriptive Mineralogy. |
| Construction.                   | (3) Physics, 1.         |
| (6) Fine Arts, 3.               | General Physics.        |
| Drawing, etc.                   |                         |

#### THIRD YEAR.

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|----------------------------------|---------------------|
| (4) Applied Mathematics, 3, 6.   | (6) Fine Arts, 4.   |
| Mechanics; Graphic Stat-         | Drawing, etc.       |
| ics (one term).                  | (2) Geology, 1.     |
| (16) Architecture, 2, 6, 11, 12. | Systematic Geology. |
| History of Architecture;         | (2) German, 2.      |
| Architectural Design;            | (2) Mathematics, 5. |
| Building Materials; Spec-        | Calculus.           |
| ifications.                      |                     |

#### FOURTH YEAR.

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|------------------------------------|--------------------|
| (2) Applied Mathematics, 5.        | (2) Economics, 2.  |
| Strength of Materials.             | Business Law.      |
| (15) Architecture, 3, 7, 8, 9, 13. | (6) Fine Arts, 5.  |
| History of Architecture;           | Drawing, etc.      |
| Architectural Design;              | (2) Philosophy, 1. |
| Building Materials; Sani-          | Logic.             |
| tary Science; Thesis.              |                    |
| (2) Astronomy, 1.                  |                    |
| General Astronomy.                 |                    |

**COURSE XII—IN ECONOMICS.**

**SECOND YEAR.**

- |   |   |
|---|---|
| (4) Economics, 1, 2.<br>Accounting and Business<br>Law.       | (4) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) Geography, 1.<br>Physical.                                | (3) Physics, 1.<br>General Physics.           |
| (2) German, 1.  | (2) Romance Language, 2.<br>French.           |
| (2) History, 1.<br>American.                                  |   |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

**THIRD YEAR.**

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|--|-------------------------------------|
| (6) Economics, 3, 4, 5.<br>Finance; Politics and Ad-<br>ministration; Economic<br>Development. | (2) German, 2.                      |
| (2) Geography, 2.<br>Economic.   | (2) History, 2.<br>Ancient History. |
| (2) Geology, 1.<br>Systematic Geology.   | (2) Philosophy, 2.<br>Psychology.   |
|  | (2) Zoölogy, 1, 2.                  |

**FOURTH YEAR.**

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|---|---|
| (2) Astronomy, 1.<br>General Astronomy.                                   | (2) German, 4.                            |
| (2) Botany, 1.<br>Structural and Systematic.                              | (4) History, 3, 5.<br>Mediaeval; English. |
| (6) Economics, 6, 7, 8.<br>Statistics; Political Econ-<br>omy; Sociology. | (2) Philosophy, 1.<br>Logic.              |

**COURSE XIII—IN LANGUAGE AND LITERATURE.****SECOND YEAR.**

- |   |  |
|---|--|
| (2) English, 3.<br>English Prose.                             | ( <sup>2</sup> ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                        |
| (2) Greek, 3; or Latin, 4.                                    | (4) Romance Languages, 2, 7.<br>French; Spanish.           |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |  |

**THIRD YEAR.**

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|--|---|
| (3) English, 2 and 5 or 6 or 8.        | (2) Greek, 4; or Latin, 5.                                    |
| (2) Geology, 1.<br>Systematic Geology. | (2) History, 1.<br>American.                                  |
| (2) German, 2.                         | (6) Romance Languages, 3, 8, 10.<br>French; Spanish; Italian. |

**FOURTH YEAR.**

- |   |   |
|---|---|
| (2) Astronomy, 1.<br>General Astronomy.   | (2) Greek, 5; or Romance Languages, 11. |
| (2) English, 7a, 7b.<br>Shakespeare.      | (2) Latin, 6; or Geography, 1.          |
| (2) German, 3.                            | (2) Philosophy, 1.<br>Logic.            |
| (4) History, 2, 3.<br>Ancient; Mediaeval. | (2) Romance Languages, 4.<br>French.    |

**COURSE XIV—IN LIBRARY SCIENCE.****SECOND YEAR.**

- |  |   |
|--|---|
| (3) English, 2, 3.<br>Themes; English Prose. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) French, 2.                               |   |



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|--|-------------------------------------|
| (2) German, 1.   | (§) Mineralogy, 1,<br>Descriptive.  |
| (7) Library Science, 1, 2, 3, 4, 5.<br>Cataloguing; Accession;<br>Classification; Adminis-<br>tration. | (3) Physics, 1.<br>General Physics. |

THIRD YEAR.

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|---|--|
| (2) English, 5.<br>American Literature. | (5) Library Science, 6, 7, 8, 9.<br>Administration; Advanced<br>Cataloguing. |
| (2) French, 3.                          | (2) Romance Languages, 7.<br>Spanish.  |
| (2) German, 2.                          | (2) Zoölogy, 1; or History.  |
| (2) Geology, 1.<br>Systematic Geology.  |  |

FOURTH YEAR.

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 1.<br>Logic.           |
| (2) Botany, 1; or History.   | (2) Romance Languages, 10.<br>Italian. |
| (5) Chemistry, 10; or Physics, 9.<br>Laboratory.   |  |
| (6) Library Science, 10, 11, 12,<br>13, 14.<br>Bibliography; History of<br>Libraries; Reference<br>Work; Thesis. |  |

COURSE XV—IN PHYSICS AND MATHEMATICS.

SECOND YEAR.

- |   |  |
|---|--|
| (3) Applied Mathematics, 1.<br>Descriptive Geometry.          | (§) Mineralogy, 1.<br>Descriptive Mineralogy.  |
| (§) Chemistry, 10 (one term).<br>Qualitative Analysis.        | (3) Physics, 1.<br>General Physics.            |
| (2) German, 1.  | (§) Physics, 9 (one term).<br>Laboratory Work. |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. | (2) Romance Languages, 2.<br>French.           |

**THIRD YEAR.**

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|---|--|
| (2) Applied Mathematics, 3.<br>Mechanics.   | (9) Physics, 2, 7, 11.<br>Mathematical Theory of<br>Electricity; Mathemati-<br>cal Physics; Advanced<br>Laboratory Work. |
| (2) Geology, 1.<br>Systematic Geology.  |  |
| (2) German, 2.  |  |
| (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three Di-<br>mensions. |  |

**FOURTH YEAR.**

- |   |   |
|---|---|
| (2) Astronomy, 1.<br>General Astronomy.                             | (11) Physics, 4, 7, 8, 13.<br>Advanced Mathematical<br>Theory of Electricity;<br>Mathematical Physics;<br>Physical Chemistry; Ad-<br>vanced Laboratory<br>Work. |
| (2) German, 3.  |   |
| (3) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |   |
| (2) Philosophy, 1.<br>Logic.  |   |

## SCHEDULE OF RECITATIONS AND LECTURES, 1897-'98.

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
6 to 7.	Geology. Machine Elements. Masonry. Rhetoric. Technical Electricity. Trigonometry. Latin, II.	Architectural Draw- ing, I, II. Botany, II. Chemical Laboratory. Elementary Electric- ity. French, II. Least Squares. Logic. Milton and Dryden. Zoology. American History. Latin, IV.	Descriptive Geome- try. Elementary Electric- ity. water supply. Greek, IV. Ethics. Spanish, I.	Chemistry. Elementary Electric- ity. Logic. Trigonometry. Zoology. American History.	Geology. German, III. Rhetoric. Steam Engineering. Trigonometry. Latin, V.	Electric Laboratory. Free-hand Drawing. Geography. Kinematics. Machine Drawing. Meteorology. Greek, II. Spanish, I.
7 to 8	Building Construc- tion. Business Law Calculus. Chemistry. English Prose. Machine Elements. Mineral. Spanish, II. Technical Electricity. Greek, I.	Accounting. American Li- Architecture ing, II. Astronomy. Botany, I. Chemical La- Differential Electrical La- French, I Physical Lal Surveying.				

## SCHEDULE OF RECITATIONS AND LECTURES, 1897-'98.

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 to 9.	Algebra. Algebra (Prep.). Mechanics. Metallurgy. Physics. Politics. Spanish, III. Latin, V. Medieval History. Psychology. Milton and Dryden.	American History. Architectural Drawing, III. Building Construction. Chemical Laboratory.  Geometry (Plane). Hydrographic Engineering. Physical Laboratory. Political Economy. Themes. Topographical Drawing. Botany, II. Library Science.	Advanced Electricity. German, I. Machine Elements. Mechanics. Shakespeare. French, III. Greek, II. Library Science.	Advanced Electricity. Building Construction. Botany, II. Differential Equations. French, I. Geography. Hydrographic Engineering. Latin, II. Machine Design. Machine Drawing. Politics. Surveying. Medieval History. Library Science.	Algebra. Algebra (Prep.). German, I. Graphic Statistics. Machine Design. Political Economy. Psychology, I. Spanish, II. Fall Buildings. Machine Drawing. Shakespeare.	Italian, II. Library Science.
9 to 10.	Descriptive Geometry. Economic Development. Geometry, Plane. Graphics. Hydrodynamics. Practical Astronomy. Greek, IV.	Algebra. Algebra (Prep.). Chemical Laboratory. Electrical Laboratory. Finance. French, III. Physical Laboratory. Railroad Engineering. Topographical Drawing.	Building Construction. Machine Elements. Latin, I. Organic Chemistry. Old English.	Economic Development. French, II. Least Squares. Machine Design. Machine Drawing. Railroad Engineering. Latin, I. Library Science.	Building Construction. Finance. Machine Design. Machine Drawing. Spanish, I.	Portuguese. Library Science.

The Laboratories and Drawing-rooms are open every evening.  
Chemistry is a laboratory course. Tuesday from 5 to 10 P. M.  
The full course in Assaying occupies three evenings a week for three months.

**DEPARTMENTS OF INSTRUCTION.**

**Anthropology.**

**DR. MASON, Lecturer.**

**Applied Geometry.**

**PROFESSOR PIERCE, Head of Department.**

Courses of lectures supplementing the regular courses in Drawing and Engineering will be given in this Department.

During the session of 1897-98, the following lectures were given:

Lecture I.—The Value of Maps.

Foreign and American Surveys, their object and utility.

Lecture II.—The Geometry of Maps.

Elementary principles of projection and perspective applied in the construction and use of maps.

Lecture III.—Scales of Publication.

Limitations and uses of maps on different scales. Symbolic representation of details.

Lecture IV.—The Representation of Relief on Maps.

Topographical maps and models.

Lecture V.—The Use of Contours.

Geometry of contoured maps and birds-eye views.

These lectures were designed to illustrate the importance of a general knowledge of the uses and limitations of maps to military and civil engineers, especially as preparatory to the study of methods of surveying. A loan collection of foreign and American maps was on exhibition during the course of the lectures.

**Applied Mathematics.**

**PROFESSOR FREYHOLD, Head of Department.**

**MR. USINA, Instructor.**

1. Descriptive Geometry. two hours; and Constructive Exercises, two hours\*

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\* Unless otherwise stated, hours per week throughout the year.

2. Stereotomy, one hour, and Exercises. References: Warren, Adhémar.

3. Analytical and Applied Mechanics, two hours.

4. Hydrodynamics, Hydraulics, and Pneumatics, one hour.

5. Strength of Materials and Theory of Elasticity, two hours.

6. Graphical Statics, two hours; and Designing Exercises, two hours.

### Architecture.

PROFESSOR HORNBLOWER, Head of Department.

MR. SIMPSON, Associate Professor of Architecture.

MR. BROWN, Lecturer on Sanitary Engineering.

MR. FULLER, Assistant in Architecture.

1. History of Architecture. Egyptian, Assyrian and Grecian. One hour.

2. History of Architecture. Grecian and Roman. One hour.

3. History of Architecture. Romanesque, Renaissance and Gothic. One hour.

4. Architectural Drawing. A review of the orders, with details to a large scale; measured drawings of existing buildings; copies and enlargements of plans and working drawings. First term, second year.

5. Architectural Design. Elementary composition; eight problems or the equivalent. Second term, second year.

6. Architectural Design. Seven problems or the equivalent. Third year.

7. Architectural Design. Six problems or the equivalent. First term, fourth year.

8. Thesis. An original design; a discussion of an architectural problem.

9. Sanitary Science. One hour, one term.

10. Building Construction. One hour, second year.

11. Building Materials and Construction. Two hours, third year.

12. Specifications. One hour, second term, third year.

13. Building Materials and Construction. Two hours, first term, fourth year.

14. Inspection of buildings erected, or in course of erection.

The assigned problems in courses 4 to 8 will require not less than twelve hours work a week from each student.

### **Astronomy.**

**PROFESSOR RICE, Head of Department.**

1. General Descriptive Astronomy. Two hours. Young's General Astronomy, with occasional lectures.

Whenever circumstances permit, students will observe telescopic objects of interest, and also make the fundamental observations of practical Astronomy.

2. Mathematical and Theoretical Astronomy. Two hours. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. Course 2 presupposes a thorough training in Mathematics.

### **Biblical Literature.**

**PROFESSOR POLLARD, Head of Department.**

1. The Life and Literature of the Hebrews during the Exile. One hour, first term.

2. Jewish History and Literature, after the Exile. One hour, second term.

3. The Mosaic Legislation—a study in the laws and social customs of the Hebrews. Two hours, first term.

4. The Lyric Poetry of the Hebrews—a study in the nature and growth of the Psalter. Two hours, second term.

5. The Life and Times of Christ—studies in the Gospels and contemporaneous history. Two hours, first term.

6. The Life and Letters of Paul—studies in the development of Christianity during the first century. Two hours, second term.

7. The Hebrew Language—for beginners. Two hours.

8. The Hebrew Language. Readings in the Books of Samuel. Two hours.

9. The New Testament Greek. Readings in the Gospel of John. One hour.

The above courses are offered to third and fourth year students, and to those pursuing special studies.

During the past session, the students of the University doing work in Biblical and Semitic lines, under the direction of the professor, formed themselves into a Club for Biblical Research, for the purpose of keeping abreast with current Biblical discussion, and of hearing papers upon appropriate themes.

### Botany.

PROFESSOR SCRIBNER, Head of Department.

MR. WILLIAMS, Assistant.

#### 1. Structural and Systematic Botany.

The year is devoted to general organography, morphology and the systematic relationships of flowering plants and the higher cryptogams, with brief outline reviews of the remaining groups. *Field excursions* are given whenever practicable, and the student is expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. Special attention is given to the larger and more difficult families of flowering plants, such as the gramineae, compositae and leguminosae. The student is also instructed in the proper manner of collecting and preparing plants for the herbarium and directed in beginning the preparation of a local herbarium. Two hours.

Text-books: Bastin's College Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants; Britton and Brown, Flora of the Northern United States and Canada.

#### 2. Histological and Physiological Botany.

The year is devoted to lectures and laboratory work in histology and physiology. The cutting of sections and staining and mounting of botanical objects is described and illustrated, and the student is instructed in the use of the compound microscope in botanical research. The vegetable cell and the various tissues entering into the structure of the higher plants are studied in detail, and the princi-



ples governing the phenomena of plant physiology are illustrated by experiments in the laboratory. Two hours.

Reference books: Goodale's Physiological Botany; Bessey's College Botany; Westermaier-Schneider, A Compendium of General Botany; Zimmerman-Humphrey, Botanical Microtechnique; Vines, Lectures on the Physiology of Plants.

### 3. Cryptogamic Botany.

This course includes lectures, reading, and laboratory on the structure, morphology, physiology, and biology of the cryptogams. Representatives of the various groups are studied in the laboratory, and field excursions are given for the purpose of collecting and studying the cryptogamic flora of the region. Special attention is given to fleshy fungi, parasitic fungi, bacteria and fresh-water algae. The student is instructed in the best methods of collecting and preparing these plants for preservation in the herbarium or laboratory for study, and is required to make a small collection of the local flora. Two hours.

Reference books: Bennett and Murray, Cryptogamic Botany; Bessey, College Botany; Vines, A Student's Text-book in Botany; and various monographic works on special groups.

NOTE.—Courses 2 and 3 will be given on alternate years, and must be preceded by course 1.

4. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor, provided that students in sufficient number present themselves.

## Chemistry.

PROFESSOR MUNROE, Head of Department.

DR. BOLTON, Lecturer on the History and Philosophy of Chemistry.

DR. CHATARD, Lecturer on Chemical Engineering.

MR. WHITEHEAD, Assistant in Assaying.

DR. FIREMAN, Instructor in Chemistry.

MR. THIGPEN, Assistant in Qualitative Analysis.

MR. PARKER, Assistant in General Chemistry.

1. General Chemistry, a series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. **Chemical Practice and Qualitative Analysis**, a laboratory course in the manufacture of chemical substances, the study of their properties and reactions, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius' Qualitative Analysis.

3. **Quantitative Analysis**, a laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Clowe's and Fresenius' Qualitative Analysis.

4. **Technical Analysis and Industrial Processes**, a lecture and laboratory course in which the elements of chemical engineering will be taught, and special attention will be given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Wagner's Chemical Technology.

5. **Assaying and Metallurgy of the Precious Metals**, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

6. **History and Philosophy of Chemistry**, an illustrated lecture course offered gratuitously to all students in the Department and given at irregular intervals.

7. **Chemistry of the Carbon Compounds**, a laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text-book: Cohen's Practical Organic Chemistry.

8. **Modern Methods of Iron and Steel Analysis**, a laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

9. **Chemistry of Explosive Substances**, a laboratory and field-work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

10. Experimental Chemistry, a laboratory course for the study of the principles of chemistry and the chemical properties of bodies. Five hours.

Text-book: Cooke's Laboratory Practice.

11. Advanced course in Organic Chemistry, Bernthsen.

12. Lectures on the Principles of Analysis.

13. Metallurgy of Iron and Steel, a course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Columbian Medical School.

Special attention is paid in all courses to the methods of making notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students will prepare a bibliography on some special topic.

### Civil Engineering.

PROFESSOR FREYHOLD, Head of Department.

MR. PRESSEY, Instructor.

1. Land and Topographical Surveying, with theory and use of Instruments, two hours; Practical Exercises and Field-work in October, November, March and April, four hours.

2. Railroad and Highway Engineering and Hydraulic Engineering (Canals, Rivers, and Harbors, Irrigation and Drainage), one hour, and Constructive Exercises, two hours.

3. Engineering Field-work and Railroad Surveying, two hours; field-work as in course 1.

4. Masonry, Wooden, and Steel Structures, two hours, and Constructive Exercises, two hours.

5. Water Supply, Sewerage, and Sanitary Engineering, one hour.

6. Elementary Construction, two hours; Constructive Exercises, two hours.

7. Modern Tall Buildings, and the use of iron in buildings, one hour.

8. Construction of Plants and Buildings, two hours, and Constructive Exercises, two hours.

### **Drawing.**

**PROFESSOR KING**, Head of Department and Lecturer on Mechanical Drawing.

**MR. THURSTON**, Assistant in Mechanical Drawing.

**MR. KLAKRING**, Assistant in Topographic Drawing.

1. Mechanical Drawing, a general course, designed also as a preparation for technical drafting.

- a.* Elementary, geometrical and graphical constructions.
- b.* Simple elevations and plans.
- c.* Elementary projections.
- d.* Developments; finding the true length of dimensions given in projection.
- e.* Elements of machines.
- f.* Sections.
- g.* Dimensioning.

2. Topographical Drawing, embracing.

- a.* Technical lines.
- b.* Hypsographic expressions, including contours, hachures, and shading.
- c.* Topographic, cadastral and public culture symbols.
- d.* Scales.
- e.* Projections.
- f.* Compilation.

3. Topographic Drawing as applied in Architecture.

4. Lettering as applied to Topographic, Architectural and Mechanical Drawings.

5. Patent Office Drawing; special attention being given to the technical character of drawings required by the rules established by the U. S. Patent Office.

Each of these general courses will occupy two hours a week and will be supplemented by practice.

**Economics.**

**PROFESSOR CRAVEN**, Head of Department.

**DR. WRIGHT**, Lecturer on Statistics.

**MR. WARD**, Lecturer on Sociology.

**MR. FORD**, Lecturer on Statistics and Finance.

**MR. ROBERTS**, Lecturer on Finance.

**MR. ROBERTSON**, Instructor in Accounting.

**MR. McNABB**, Instructor in Business Law.

**MR. NEWCOMB**, Instructor in Statistics.

**I.—FINANCE.**

**1. Advanced Accounting and Auditing.**

**First Year: Private, Individual, and Corporation Business.**

**Two hours.**

**Second Year: Public, Official, State, and Municipal Business.**

**Two hours.**

**2. Business Law.**

**First Year: Practical Business, Commercial and Banking Law:**

**I.—Business Law in general:**

**Principles on which it rests.**

**II.—The Law of Contracts:**

**a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.**

**b. Commercial Paper:**

**Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.**

**III.—Descent and Distribution of Property:**

**Duties of Executors, Administrators, Trustees, Guardians, etc.**

**IV.—Business Forms and Practice. Two hours.**

**Second Year: Financial, Industrial, and Commercial Legislation of the United States. Two hours.**

**3. The History and Science of—**

**(1) Private Finance: Barter, Exchange, Money, Coinage, Credit and Banking. Two hours, 1899-1900.**

**(2) Public Finance: In ancient, mediæval, and modern times.**

**A comparison of the present systems of Germany, France, England and the United States. Two hours, 1898-99.**

## THE COLUMBIAN UNIVERSITY.

## II.—POLITICS AND ADMINISTRATION.

4. I.—Civil Government in the United States. Two hours, 1899-1900.  
II.—Theories and Forms of Government. Two hours, 1898-99.

## III.—ECONOMIC DEVELOPMENT.

5. I.—The History of Economic Growth among Ancient, Mediæval, and Modern Peoples, down to A. D. 1500. Two hours, 1899-1900.  
II.—Modern Industrial and Commercial Changes since A. D. 1500. Two hours, 1898-99.

## STATISTICS AND TRANSPORTATION.

6. I.—Comparative: A numerical study of social relations with particular regard to the population, industries, and commerce of the United States. It is the especial purpose of this course to familiarize the student with the methods of collection, classifying, tabulating, and analyzing statistical data followed in the decennial censuses of the United States and in other official investigations. Two hours, 1898-99.  
II.—Railway Transportation: History and Development of Railways. Theories of Rates, Combinations, State Ownership or Control. Two hours, 1899-1900.

## POLITICAL ECONOMY.

7. I.—An Historical Introduction to the Study of Political Economy. Two hours, 1899-1900.  
II.—The Principles of Economics. Two hours, 1898-99.

## SOCIOLOGY.

8. I.—The Principles of Sociology. Two hours, 1898-99.  
II.—A Study of Individualism, Socialism, and of the Practical Social Problems of State and Municipal Administration in Respect to Sanitation, Charities, Crime, etc. Two hours, 1899-1900.

**English.****PROFESSOR WILBUR, Head of Department.**

Courses of study in the Department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give information, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

All of the English subjects are correlated with a view to consecutive study through four years: First Year, Courses 1, 4; Second Year, Courses 2, 3; Third Year, Courses 5 and 6 (a), 6 (b), or 8; Fourth Year, Courses 7 (a), 7 (b). First Year English is required in all courses of study leading to a degree. The Language and Literature Course requires English 3 in the Second Year; three hours a week of electives in the Third Year; and two hours of electives in the Fourth Year. The Library Science Course requires English 2 and 3 in the Second Year, and English 5 in the Third Year.

**I****RHETORIC AND COMPOSITION.**

1. **Practical Rhetoric.** Rhetorical analysis and composition. (Text-books, *Practical Elements of Rhetoric*, Genung; *Handbook of Rhetorical Analysis*, Genung.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) A verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. First Year Course. Two hours.

2. **Theme Writing.** Practice in various kinds of composition and studies in style. This is an advanced course in English composi-

tion; it consists of themes, fortnightly essays, class studies, and lectures. One hour.

3. English Prose. The development of English prose style from Lyly to Macaulay. (Text-book, *Manual of English Prose Literature*, Minto; selections as needed.) This is a critical survey equally valuable in investigating the elements and qualities of style, and in disclosing the riches of our literature through nearly three centuries of development. Two hours.

## II.

### LANGUAGE AND LITERATURE.

4. English Literature. The history and development of English Literature; an outline study with lectures and readings from English authors. First Year Course. One hour.

5. American Literature. Growth and development of American Literature. Lectures in history and criticism; study of selected authors and the discussion of papers prepared by the class. Two hours.

6 (a). Milton. A study of Milton's poems and of their relation to Puritanism. Two hours, first term.

6 (b). Dryden and Pope. A study of eighteenth century poetry. Two hours, second term.

7 (a). Shakespeare. The English Historical Plays: King John; King Richard II; King Henry IV, parts I, II; King Henry V; King Henry VI, parts I, II, III; King Richard III; King Henry VIII. Two hours, first term.

7 (b.) Shakespeare. A group of selected plays studied comparatively: As You Like It, Julius Caesar, Hamlet, Othello, Lear, Macbeth, The Tempest. Two hours, second term.

8. Old English. Elementary course. The essentials of the grammar and reading of selections from Old English texts. One hour.



**Fine Arts as Applied to Architecture.**

**PROFESSOR AMATEIS, Head of Department.**

**ACTING PROFESSOR FULLER.**

**MR. MEYER, Instructor in Fine Arts.**

**MR. FERREE, Assistant in Fine Arts.**

1. Free-hand Drawing. One hour.
2. Architectural Drawing. (The five orders.) One hour.
3. Drawing and Fine Arts. Six hours, second year.
4. Drawing and Fine Arts. Six hours, third year.
5. Drawing and Fine Arts. Six hours, fourth year.
6. Modeling.
7. Lectures on the History of Ornaments, Painting, and Sculpture.

The work in courses 3, 4, and 5 is so arranged as to illustrate architectural ornamentation and decoration discussed in the lectures on the history of architecture and to furnish skill and practice in the treatment of the assigned problems in architectural design. The work will include free-hand drawing with pencil, pen and wash; perspective drawing; water-color; drawing from the flat, from casts, and from life.

Courses in Fine Arts for special students are arranged each year. These courses vary from year to year, according to the needs of the students enrolled. During the session of 1897-98, the following courses were given:

**FORENOON—9 TO 12.**

**Classes in Oil and Charcoal—**

**From draped model. Monday, Wednesday, Friday.**

**From cast. Tuesday, Thursday.**

**Class in charcoal, from cast. Monday to Friday, inclusive.**

**Classes in still-life and copying. Monday to Friday, inclusive.**

**AFTERNOON—1 TO 4.**

Classes in water color and wash. Monday, Wednesday, Friday.

**EVENING—7 TO 10.**

Classes in charcoal, pen and ink, wash drawing; from cast and flat.

**Geodesy.**

**PROFESSOR GORE**, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-books: Gore's Elements of Geodesy, 3d edition.

**Geography.**

**PROFESSOR GREELY**, Head of Department.

**MR. PORTER**, Assistant.

The course of instruction includes Physical and Economic Geography. The methods followed embrace compilations, collations, and investigations by the students, and courses of lectures by the professor. The latest text-books are supplemented by the discussion of recent geographical data drawn largely from current scientific and statistical publications of the various Governmental bureaus in Washington.

I. Physical Geography: Two hours. Especial attention will be given to such parts of the earth as by fauna and flora, by mineral and vegetable deposits, or by other favoring physical conditions, either contribute most largely or promise future advantages to human welfare. Among other subjects will be considered the material influence of climatic conditions and geological formations as factors in the development of natural resources; modifications and exten-

sions of fauna and flora by human or natural agencies; discoveries of mineral, vegetable, and other deposits; transference of centers of population, industries, and commerce; improvements of natural and creation of artificial transportation routes, and other similar physical features related to human activities.

II. Economic Geography: Two hours. The subjects specially studied bear on the most important factors connected with the development of agricultural and mineral resources, the extension and evolution of industrial methods, and their dependence on trade and commerce. The growth or decadence of the more important activities of countries or regions, transitions in industrial methods, modifications of commercial relations, the development of improved transportation routes, will be considered in their relation to each other and their effect on the future development of the world in general and the United States in particular.

### **Geology and Mineralogy.**

**PROFESSOR MERRILL, Head of Department.**

**DR. STANTON, Instructor in Paleontology and Stratigraphical Geology.**

#### **MINERALOGY.**

1. Descriptive Mineralogy. Two hours, first term.
2. Determinative Mineralogy. Four hours, second term.

#### **GEOLOGY.**

1. Systematic Geology; Geognosy; Dynamical, Structural, and Stratigraphical Geology. Two hours. Text-book: Leconte's Elements of Geology.

2. Economic Geology. Two hours. Text-books: Kemp's Ore Deposits of the United States, Merrill's Stones for Building and Decoration.

Mineralogy is taught as introductory to geology: The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical and includes a study of the ores of the base and

precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection showing the minerals not merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

The Course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock-formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under (first) mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (second) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

### German.

PROFESSOR SCHOENFELD, Head of Department.

1. Accurate training in elementary grammar (Otis); pronunciation and translation from English into German; exercise in conversation; readings from Andersen's *Bilderbuch ohne Bilder*, Storm's *Immensee*, and some easy German poetry. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc.; extensive translations into German; Gore's Science Reader, fourth edition; selected stories; Lessing's Minna von Barnhelm. Two hours.

3. Study of idioms, synonyms, and Sander's Hauptschwierigkeiten der deutschen Sprache; special preparation for scientific professional work; Helmholtz on Goethe's work in natural history (edition of Seidensticker); Gore's Du Bois-Raymond's Rectoratsreden; critical studies of German classics; lectures on German literature. Two hours.

4. A special course in German training for advanced students in the Historic and Economic Departments. Schoenfeld's German Historical Prose and the standard works of German historians and economists will be read. Two hours.

### **Greek.**

**ASSISTANT PROFESSOR PYNE.**

**ACTING ASSISTANT PROFESSOR DALES.**

1. Elementary Greek. The thorough mastery of the forms is the object of the first year's work. Constant practice is afforded in translating from Greek into English and from English into Greek. An outline of Greek syntax is acquired. During the latter part of the year the first book of the Anabasis is read. Text-books: White's First Greek Book; Goodwin's Anabasis. Two hours.

2. First half year, Anabasis, Books II and III, accompanied by a more thorough study of syntax and review of forms. During the second half year the first three books of the Iliad are read with some study of the origin and development of Epic poetry. Two hours.

3. First half year, further study of Epic Poetry, accompanied by the reading of a portion of the Odyssey. The second half year is devoted to Herodotus. A careful study of the dialect is made and some attention is paid to the origin and development of History. Two hours.

4. Greek Oratory. The origin and development of Oratory among the Greeks is fully traced and especial emphasis is placed upon its

importance in any historical study of Greek style. Selections from various orators, especially Lysias and Demosthenes are read and discussed in class. Two hours.

5. Greek Drama. The work in this course is more advanced, and deals largely with matters literary and historical. Selections from Attic tragedy and comedy are read and discussed. Two hours.

All courses are accompanied by study in grammar and composition.

Courses 1 and 2 do not count for a degree.

### History.

PROFESSOR FARQUHAR, Head of Department.

1. American History. Text-books: Elliot, Fiske, Johnston. Reference books: Bancroft, Adams, Von Holst, McMaster, Eggleston. Two hours.

2. Ancient History. Text-books: Myers, Merivale. Reference books: Brugsch, Rawlinson, Grote, Arnold, Mommsen. Two hours.

3. Mediaeval History. Text-books: Myers, Bryce, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Two hours.

5. English History. Text-books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.

6. Bible History. Lecture course. Reference books: Ancient History generally, with Edwald, Renan. Two hours.

Instruction in this department is given both by text-books and lectures. The method is rational and comparative rather than precise and mechanical; the course of human progress and development, the growth of institutions and civilization, receives more emphasis than separate facts. Essay-work is required. The unequalled facilities for historical research afforded by the Capital of the Nation are held in view of the classes.

**Latin.****ASSISTANT PROFESSOR PYNE.****ACTING ASSISTANT PROFESSOR DALES.**

1. **Elementary Latin.** Text-book, Collar and Daniell's First Latin Book. Constant practice in translation, both oral and written, from Latin into English and from English into Latin. Thorough mastery of the forms is insisted upon as indispensable. During the latter part of the year easy selections from Viri Romae or Nepos are read. Two hours.

2. **Nepos and Caesar,** accompanied by studies in grammar and composition. Two hours.

3. **Cicero and Vergil.** Matters of syntax and prosody here receive much attention and further practice is given in writing Latin. Two hours.

4. **First half year, Livy.** More attention is paid to matters of style and points of historical interest.

**Second half year, Horace.** Studies in versification. Especial attention will be devoted to artistic translation and specimens of such will be discussed. Two hours.

5. **Cicero, De Amicitia; Tacitus, Germania and Agricola; Pliny.** During the latter part of the year a course of rapid reading in Ovid will be conducted, in which students will be expected to read large amounts. Two hours.

6. **Roman Comedy.** Study of the best plays of Plautus and Terence, with study and discussion of points of historic and dramatic interest. Two hours.

Courses 1, 2 and 3 do not count for a degree.

**Library Science.****PROFESSOR SPOFFORD, Head of Department.****MR. PRESNELL, Instructor.****MR. CUTTER, Instructor.**

The course in Library Science was instituted in October, 1897, and during the year 1897-98 twenty students have registered for the

work. The intention is to provide such practical instruction as shall fit students for positions as librarians or library assistants, making the instruction as thorough as the limited time and the facilities afforded will allow.

1. Elementary Cataloguing. Practice in cataloguing such books as will best illustrate the main features of cataloguing. Cards are returned to students after correction, and may be preserved. Lectures will be given on catalogue rules, on the different forms of printed and written catalogues, on methods of duplication, and on the mechanical accessories used. Two hours.

2. Accession Department Work. Inspection and purchase of books. Reception, checking bills, collation, preparation for shelves. Accessioning. Order slips, order and serial blanks. One hour.

3. Elementary Classification and Shelf Department Work. Lectures on classification systems and notations; on shelf arrangements, shelf-listing and stock-taking. One hour.

4. Library Administration. Loan Systems. Methods of registering borrowers; charging systems; delinquent notices, fines; inter-library loans. One hour.

5. Typewriting. Two hours.

6. Library Administration. Accounts. Statistics of readers and reading, care of supplies, etc. One hour.

7. Library Administration. Care and preservation of books. Book-binding and repair or restoration. Injuries from heat, gas, damp, insects, thefts, mutilation, etc. Treatment of periodicals and pamphlets. One hour.

8. Library Administration. Rules, access to shelves, library advertising, librarian's reports, relations to trustees or library authorities; buildings, furniture and fittings, light, heat and ventilation; selection of assistants, salaries, leave, hours, etc. One hour.

9. Advanced Cataloguing. Preparation of a dictionary catalogue on the most advanced plan. Finding lists and accession lists. Printed catalogues. Cataloguing rarities. Government publications. Two hours.

10. Bibliography. Universal, national, trade and special bibliographies. Preparation of bibliographies and finding lists. Methods



of citation and abbreviation. History of printing, paper, publishers, etc. Two hours.

11. History of libraries. American, foreign. Copyright, in relation to libraries and literature. One hour.

12. Reference Work. Helps for reader and student. Reader's guides. Note-taking and indexing. Preparation of abstracts. Reading methods. Two hours.

13. The library and the public. Organization of libraries. Library commissions and legislation. Travelling libraries. Library associations. Uses of the library to the university, the common school, the citizen, the official. One hour.

14. Preparation of thesis. Each student will be expected to present a thesis which will show the ability to do independent work. The member of the faculty having the student under his instruction in the branch on which the thesis is written will render all needed assistance.

In each of the subjects in the course extra time may be required for the practice necessary to put the facts taught to use.

### **Mathematics.**

**PROFESSOR HODGKINS, Head of Department.**

**MR. HODGKINS Instructor.**

(A.) Elementary Algebra: Three hours. Bowser's College Algebra.

(B.) Plane Geometry: Three hours. Phillips and Fisher's Elements of Geometry.

1. Algebra: Three hours. Bowser's College Algebra.

2. Geometry: Two hours. Phillips and Fisher's Elements of Geometry.

3. Trigonometry: Three hours, first term. Crockett's Plane and Spherical Trigonometry.

4. Analytic Geometry: Three hours, second term. Bowser's Analytic Geometry.

5. Calculus: Two hours. Bowser's Calculus.

6. Differential Equations: Two hours. Johnson's Differential Equations.

7. Least Squares: Two hours, ten weeks.

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.

8. Determinants: Two hours, ten weeks. Weld's Determinants; Hanus' Determinants.

9. Quaternions: Two hours, ten weeks. Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: Two hours, ten weeks.

11. Theory of Equations: Two hours, ten weeks.

12. History of Mathematics.

Courses A and B are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 shall have studied plane geometry, and through quadratic equations in algebra. But as a thorough and ready knowledge of these elements is essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, they serve as preparation for the advanced courses described under the Graduate School. Usually only three of these five courses will be given each year.

### **Mechanical Engineering.**

PROFESSOR FARWELL, Head of Department.

MR. MUIR, Instructor in Machine Drawing.

1. Machine Drawing. A general course in drafting room practice. One hour, second year.

2. Machine Drawing. A course for mechanical and electrical engineering students (working drawings). Four hours, second year.

3. **Machine Drawing.** An advanced course for mechanical engineering students. (Assembly drawings, piping and foundation plans, designing elementary machine parts.) Four hours, third year.

4. **Machine Drawing.** An advanced course for electrical engineering students. (Assembly drawings, wiring and connection diagrams; designing elementary parts of electrical machinery.) Four hours, third year.

5. **Machine Problems.** An elementary study of the transmission of forces in machinery. Two hours, second term, second year.

6. **Kinematics.** Elementary mechanical movements, tooth gearing and valve gears. Two hours, third year.

7. **Graphical Dynamics.** Graphical methods applied to the dynamics of machinery. One hour, second term, third year.

8. **Theory of Machines.** Their design and construction; dynamics of machinery. Four hours, fourth year.

9. **Machine Design.** Constructive exercises; designing simple machines, hoisting machinery, etc. Four hours, fourth year.

10. **Prime Movers.** A comparative study of the steam engine, gas engine, air engine, hydraulic motors and other sources of power; elementary thermodynamics. Two hours, fourth year.

11. **Laboratory Practice.** Testing the strength of materials, calibration of instruments, indicator and brake tests of various prime movers, belt tests, etc. Three hours, fourth year.

12. **Inspection of Power Plants and Machine Shops.** In and about Washington are many plants which afford the student opportunity to familiarize himself with many types of motors, machines and shop practices. Notes and sketches of machines and processes will be made and discussed later in class.

No manual training is afforded by this department. It is, however, considered essential for the future success of the student that he shall be familiar with the practical operations of the blacksmith, pattern making, foundry and machine shops. This end is sought, as far as practicable, in course 12 above. But the work of this course should be supplemented by further time spent in a shop of ample facilities.

The department lays main stress upon the designing and testing of machinery, considerable practice in which is given.

There is in the department a small but select library of reference on Mechanical Engineering, which the students are urged to use as much as possible. To this have been added a number of valuable books, pamphlets, drawings, etc., loaned by the professor.

For a description of the apparatus available for tests, see page 83.

### **Mental and Moral Philosophy.**

**PROFESSOR HILLIKER, Head of Department.**

1. Logic, Deductive and Inductive. Text-book: Jevons. The text-book work is aided by exposition and supplemented with lectures. In the second term's work in Induction, the instruction is chiefly by lectures, with references to Hamilton, Thomson, Whately, Mill and Everett, and copious illustrations from the works of modern science. Two hours.

2. Psychology. It is aimed to make a candid study of mental phenomena and laws, without undue emphasis of attendant physiological processes, or unwarranted assumption of rational implications. Text-book: Baldwin. Special references: James, Titchener and Dewey. General references: Lotze, Wundt, Ribot, Sully, Höffding. Two hours.

3. Ethics. The class study the text of Aristotle, Kant, Mill and Spencer, and have outlined to them in lectures the other leading ethical systems. With the data thus gained, constructive work is done, Dewey and McKenzle being taken as guides. Two hours.

### **Meteorology and its Applications.**

**PROFESSOR ABBE, Head of Department.**

**ASSISTANT PROFESSOR MARVIN.**

**MR. ABBE, Instructor in Physlography.**

The courses in Meteorology are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each

of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the lectures, the professor devotes one hour a week to a "quiz" class, in which, by questions and answers, he seeks to remove any difficulties that remain.

Physiography as a branch of Geology is assigned to the Department of Meteorology as being that special application of Climatology to Geology whereby the history of the formation of the surface of the earth is explained.

1. **Observational Meteorology.** Personal diary of the weather; general methods of observing without instruments; the rain gauge; the thermometer; the barometer; the nephoscope; the anemometer; hygrometry; actinometry; self-registering apparatus; observations in balloons; observations on mountain stations; meteorological expeditions by land and sea; forms for record; methods of computation of means and normals; graphic methods of presenting results. Two hours.

2. **General Climatology.** Elements of climate; general distribution over the earth of sunshine, temperature, moisture, pressure, wind, clouds; diurnal, annual, and secular periodicities; variability of local climates; empirical relations between the winds and the other elements; the absorption of radiations by the atmosphere; the theory of probabilities as used in climatology; the computations of the coefficients of the Bessels-Fourier equation; the climatic features of areas of high and low pressure; the relations between ocean currents and the atmosphere; solar and lunar tides; the constituents of the atmosphere and their variations; atmospheric dust; atmospheric moisture; climatic characteristics of oceanic, continental, and littoral regions; sensible temperatures; constitution of the atmosphere as affected by plants, animals, altitudes, and the ocean; influence of snow, swamps, and forests. Two hours.

3. **Special Subjects in Meteorology and Climatology.** Optical phenomena; thermal phenomena; acoustic phenomena; electrical phenomena; climate and geology; climate and vegetation; climate and anthropology; climate and hygiene; climate and engineering; climate

and manufacturing industries; atmospheric dust in relation to rain, geology, vegetation, hygiene, manufactures. Montgomery J. Storm's *Steam-engine* and Barnes' *Cloudy Condensations*.

The relation of the atmosphere to ordnance operations. Two hours.

4. **Physiography or Elementary Physiographic Geology.** This course is meant to supplement a course in *Elementary Geology*, and deals with the origin and development of the forms of the earth's surface. This subject includes the life histories of rivers, lakes, mountains, plateaus, plains, coast lines, continents, islands, etc., and a classification of these different features both with reference to all these classes and to each class as such. Consideration is also given to topographic forms in their relation to climate and to human occupation.

Although an elementary knowledge of *Geology* is necessary for the best understanding of the subject of *physiography*, the lack of this need not be a bar to entering the course, as complete explanations of geological points will be made when wanted.

The course occupies two hours a week, one hour being devoted to a lecture, and the second hour (immediately succeeding the lecture if possible) is taken up in examination and study of the maps, charts, photographs, and models.

If possible, there are occasional field-lectures in place of laboratory work, when various points in the neighborhood of Washington are visited and the important features of the local topography pointed out.

### **Physics and Electrical Engineering.**

PROFESSOR WOLFF, Head of Department.

MR. MEANS, Laboratory Assistant.

MR. REISNER, Laboratory Assistant.

1. **General Physics.** Three hours. First term: *Mechanics*, *Sound* and *Heat*. Second term: *Light*, *Electricity* and *Magnetism*. Text-books: *Glazebrook's Mechanics*; *Ames' Theory of Physics*.

This course is fully illustrated by experiments, and practical physical measurements are made before the class.

2. **Elementary Mathematical Theory of Electricity and Magnetism.** Three hours, first term. Text-book: S. P. Thompson's *Elementary Lessons in Electricity and Magnetism*.

3. **Dynamo-electrical Machinery.** Three hours, second term. Text-book: Hawkins and Wallis, *The Dynamo*.

4. **Advanced Mathematical Theory of Electricity and Magnetism.** Three hours, first term. Text-book: Duncan's *Translation of Gerard's Electricity and Magnetism*.

5. **Dynamo-electric Machinery.** Advanced course. Three hours, second term. Text-books: S. P. Thompson, *Dynamo-electric Machinery*, *Polyphase Currents*.

6. **Technical Applications of Electricity.** Two hours.

7. **Advanced Physics.** A mathematical course intended to acquaint the student with the methods of mathematical physics, and as an introduction to the more advanced courses in the Graduate School. Three hours, second term.

8. **Physical Chemistry.** An elementary course with special reference to the modern theories of solutions and electro-chemistry. Two hours.

9. **Elementary Laboratory Work.** The exercises will include fundamental measurements and experiments in all branches of Physics. Three hours, both terms, or five hours, second term.

10. **General Electrical Measurements.** A laboratory course for students in the third year of the Electrical Engineering course. Six hours. Text-book: Carhart and Patterson's *Electrical Measurements*.

11. **Advanced Laboratory Work for Third Year Students.** This includes such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols. Six hours.

12. **Advanced Laboratory Work for Fourth Year Students in the Electrical Engineering course,** dynamo and motor-testing, determinations of characteristics, etc. Six hours.

13. **Advanced Laboratory Work for Fourth Year Students in the course in Physics and Mathematics.** Students first repeat a number

of classic researches in experimental physics, and, when thus prepared, undertake original work under the guidance of the head of the department.

14. Inspection of Electric Light and Power Plants. In and around Washington and Baltimore are a number of electric-lighting and street-railway plants, which afford students of electrical engineering an excellent opportunity of familiarizing themselves with nearly all types of electrical machinery. The visits are followed by a class discussion.

Occasional meetings are held at which papers on special subjects are read by advanced students.

For a description of the apparatus in the electrical engineering laboratory available for tests, see page 83.

### **Romance Languages.**

**PROFESSOR RAMSEY, Head of Department.**

**M. MAILLET, Assistant.**

#### **FRENCH.**

1. As the aim of the instruction during the first year is to give the students a working knowledge of the language, their efforts are centered upon its grammatical construction and the acquisition of a vocabulary. By the end of the year the class is expected to have mastered the essentials of the grammar and to be able to read easy French prose and to understand it when spoken. To this end the French language is used largely as a medium of instruction. Two hours.

Text-books: Chardenal's French Course; Bercy, *La Langue Française* (part 1); Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary).

2. Continuation of the study of grammatical constructions, with exercises in composition and conversation. Occasional lectures in French on topics of general interest. Oral drill in sight rendering of English into French. Study of synonyms and idioms. Two hours.

Text-books: Whitney's *Practical French Grammar*; Lacombe, *Petite Histoire du Peuple Française*; Mérimée, *Colomba*; Cornille, *Horace*.



3. General introduction to the study of French literature. Literary composition and the principles of rhetoric. Lectures on the development of the language and upon prominent periods of the literature. Two hours.

Text-book: Fortier, *Histoire de la Littérature Française*. The texts read, which must be representative of at least three distinct periods, are selected by the class.

4. Advanced prose composition and verbal criticism. Two hours.

Text-books: Howard's *Aids to French Composition*; Méras, *Syntaxe Pratique*; Muzzarelli, *Antonymes de la Langue Française*; Crouslé, *Grammaire Française (Cours Supérieur)*; Legouvé, *La Lecture en Action*.

5. French conversation for beginners. (M. Maillet.) Two hours.

A four months' course, given twice yearly, beginning October 1 and February 1, intended for members of classes 1 and 2 who desire more instruction in conversation than can be given in the required work of those years.

6. Lecture course, in French, on historical and literary subjects. (M. Maillet.) One hour.

A four months' course extending from November to February, inclusive. The topics vary each year. The course given during the year 1897-98 consisted of twelve lectures, under the following heads: Jeanne d'Arc; Molière, Chateaubriand; Lamartine; Marie Antoinette; Benjamin Franklin; Bonaparte; Napoléon I, Empereur; Victor Hugo; Indépendance de la Grèce; Conquête de l'Algérie; La France depuis 1870.

#### SPANISH.

7. The class is drilled in pronunciation, in hearing the spoken language, in writing from dictation, and in oral and written translation, into Spanish, of carefully graded exercises. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

Text-books: Ramsey's *Elementary Spanish Grammar* and *Elementary Spanish Reader*.

8. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms.

History and development of the Castilian language and literature. Exercises in literary composition. Reading from standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's Text-book of Modern Spanish; and Spanish texts, to be selected as required.

9. Advanced prose composition and verbal criticism. Two hours.

Text-books: Ferreyra, *Lecciones de idioma castellano*; Arpa, *Ejercicios prácticos*; Valbuena, *Ripios académicos* and *Ripios ultramarinos*; Orellana, *Cizafia del lenguaje*.

The instruction in Spanish in this department has special reference to the rapidly increasing intercourse between the United States and the Spanish-American Republics, and as much attention as possible is given to the customs, usages, resources, and products of those countries.

#### ITALIAN.

10. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered the class is led at once to the reading of the easier prose authors, ending with the "Alberto" of De Amicis. Two hours.

11. Further study of the grammatical construction and the principles of syntax and style. History and development of the Tuscan language and literature. Selections from Dante Alighieri, Petrarca, Boccaccio, Ariosto, Tasso, Goldoni, Pellico, and Manzoni. Two hours.

Text-book: Sauer's Italian Grammar.

#### Slavonic Languages.

PROFESSOR SCHOENFELD, Head of Department.

An introductory course in the Polish language and literature is offered, as the first and richest among the Slavonic tongues, to be followed by Bohemian in the next scholastic year.

1. A Survey of the Polish Grammar, its phonetic laws, its position among the other languages of the Indo-European family, is given. Reading of easy prose and poetry.

2. Syntactical structure of the Language, its history and foreign elements. Extracts from Mickiewicz's and Kraszewski's master

works are read. A collection of Polish national songs and legendary poetry is studied.

These courses are introductory to a future graduate department in the Slavonic languages. Students will consult Morfill's Story of Poland, Geschichte von Polen, Prof. Carvo, Prof. Röppell, and Dr. Schoenfeld's work on "Higher Education in Poland" (U. S. Bureau of Education); his articles on Slavonic literatures in Johnson's Universal Cyclopaedia, and his essays on the "Partition of Poland" and "Polish Elements in German Literature."

### **Zoölogy.**

**PROFESSOR GILL, Head of Department.**

A general course in Zoölogy will include lectures and laboratory work. The lectures in their scope cover all the branches of the animal kingdom, from the unicellular organisms to mammals, and correlated with these lectures is the study and dissection of type specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws and the general principles of evolution.

Lecture. One hour.

Laboratory. One hour.

### **Mechanical and Electrical Engineering Laboratory.**

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches. The Mechanical Engineering Department is also provided with a valuable collection of machine parts, illustrating the best modern practice, such as shaft hangers, pedestals, valves, jacks, friction clutches, etc.

It is expected that arrangements will be perfected during the present session to provide the necessary additional testing machines and instruments to give a laboratory course in engineering practice. The lighting and heating plant now being installed in the University building, will form an excellent basis for such work.

A 25 K. W. direct current Westinghouse dynamo, direct connected to a Westinghouse gas engine of the latest type, is to be installed. The dynamo is being specially constructed to adapt it to experimental requirements, generating both direct and polyphased alternating currents. The surplus power of the Westinghouse gas engine, which is directly connected to the dynamo, will be utilized in driving smaller dynamos of various forms, which the students will have the opportunity of testing.

The engine is one of the latest and most improved types of gas engines, being a two-cylinder single-acting engine, giving an explosion every revolution, and an exceptionally close regulation. Provision will be made for testing the efficiency of each machine independently, or the combined unit under a great variety of conditions.

In addition to the above, an experimental electrolytic refining plant has been installed, current for which is furnished by a Crocker & Wheeler motor dynamo, giving 150 amperes at 6 volts. Special investigations in electrometallurgy are in contemplation.

The laboratory will be equipped with the necessary measuring apparatus, direct and alternating current ammeters and voltmeters, galvanometers, standard resistances, standard cells, etc.

### **University Library.**

The Library is open every day until 10 o'clock p. m., for purposes of study and inquiry, and is supplied with the leading reviews and periodicals.

### **University Lectures.**

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to lectures, other than the law lectures, given in the University Hall, by applying to the Dean.

### **Examinations.**

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for degrees in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before

the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of Commencement."

"Examinations for prizes in each of the said departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of Commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and Instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.

### **Requirements for Degrees.**

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered, or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

### **Scholarships.**

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Corcoran Scientific School of The Columbian University, at the discretion of the Dean of said School."

Edward T. Fristoe Scholarship has been founded in memory of the first Dean and Professor of Chemistry of the Corcoran Scientific School. The income from this fund is not yet available.

Robertson Scholarship in Accounting, established by Mr. P. W. Robertson, is awarded on competitive examination, and entitles the holder to free tuition for one year in this subject.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, consist of five scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

All awards of scholarships are made for one year only, but may be renewed.

#### **Loan Collection of Text-books.**

Through the generosity of Mrs. Susan Moore a collection of text-books has been provided, to be loaned to indigent students at the discretion of the Dean.

#### **Prizes.**

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

**SCHMIDT PRIZE.**—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a pocket case of the finest Drawing Instruments. All students in full standing in the second year taking a full course in one of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments; Descriptive Geometry plates to count seventy-five (75) *per centum*, and twenty-five (25) *per centum* to be evenly distributed between the yearly examinations in Descriptive Geometry and the second year mathematical studies taken in common by all four departments.

**VEERHOFF MEDAL.**—Mr. W. H. Veerhoff offers a gold medal to that student in Architecture who obtains the best average in the first year of the course in Fine Arts as applied to Architecture.

**AMATEIS MEDAL.**—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

### Annual Tuition Fees.

For single studies, without laboratory work.....	\$40 00
For two studies, without laboratory work.....	75 00
For three or more studies, without laboratory work.....	100 00
Course 10 in Chemical Laboratory, including cost of material and apparatus .....	50 00
Laboratory Course in Chemistry (except 10).....	100 00
For chemicals used .....	25 00
Deposits (returnable) for breakage.....	25 00
Laboratory Courses in Assaying of Ores and Bullion.....	40 00
For materials used .....	20 00
Elementary Course in Physical Laboratory.....	20 00
Advanced Course in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy.....	60 00
For materials used .....	10 00

### Annual Fees for Full Courses of Study Leading to the Degree of Bachelor of Science.

First year (common to all courses).....	\$100 00
Second year, Course 1 (laboratory fees extra).....	100 00
Third " " 1 " " " .....	100 00
Fourth " " 1 " " " .....	100 00
Second " " 2 .....	100 00
Third " " 2 .....	100 00
Fourth " " 2 .....	100 00
Second " " 3 .....	120 00
Third " " 3 .....	130 00
Fourth " " 3 .....	130 00
Second " " 4 .....	130 00
Third " " 4 .....	120 00
Fourth " " 4 .....	120 00
Second " " 5 .....	130 00
Third " " 5 (deposit, \$10.00).....	150 00
Fourth " " 5 (deposit, \$10.00).....	150 00
Second " " 6 .....	130 00
Third " " 6 (deposit, \$10.00).....	150 00
Fourth " " 6 (deposit, \$10.00).....	150 00
Second " " 7 .....	100 00
Third " " 7 .....	100 00
Fourth " " 7 .....	100 00
Second " " 8 .....	130 00
Third " " 8 .....	120 00
Fourth " " 8 .....	130 00
Second " " 9 .....	130 00
Third " " 9 .....	100 00
Fourth " " 9 (laboratory fees extra).....	100 00
Second " " 10 .....	150 00
Third " " 10 (deposit, \$10.00).....	150 00
Fourth " " 10 .....	100 00
Second " " 11 .....	100 00
Third " " 11 .....	100 00
Fourth " " 11 .....	100 00
Second " " 12 .....	100 00
Third " " 12 .....	100 00



Fourth year, course 12.....	\$100 00
Second " " 13 .....	100 00
Third " " 13 .....	100 00
Fourth " " 13 .....	100 00
Second " " 14 .....	100 00
Third " " 14 .....	100 00
Fourth " " 14 .....	130 00
Second " " 15 .....	130 00
Third " " 15 .....	130 00
Fourth " " 15 .....	130 00
Diploma fee (final) .....	10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, unless special arrangement be made with the Treasurer to suit the convenience of the student. Fees for single or for special studies are payable in advance in half-yearly installments. No deduction on account of absence will be made for less time than one-quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study should inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.

### **Rooms and Board.**

During the year 1897-98 desirable rooms, convenient to the University buildings, have been offered at prices ranging from \$5 to \$10 per month, and good board has been offered at from \$15 to \$20 per month. List of persons offering rooms and board can be obtained from the Registrar of the University.

For further information regarding the Corcoran Scientific School, application may be made to

HOWARD L. HODGKINS, *Dean,*  
*The Columbian University.*

## STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

## Candidates for Degrees.

Name.	State.	Address.
Alexander, John Phipps.....	Tenn.....	U. S. Treasury Department.
Allen, Fanny May.....	Md.....	1324 S St.
Armstrong, John Elmer.....	N. Y.....	Pension Bureau.
Arntzen, Julius Leopold.....	Mo.....	Department of Agriculture.
Arth, Charles Woodbury....	D. C.....	1305 Corcoran St.
Bayly, Charles Olay.....	D. C.....	710 Nineteenth St.
Beeler, George Lowman.....	Ill.....	409 G St. N. E.
Blakelock, David Holmes....	D. C.....	619 Sixth St. S. W.
Boyd, James K.....	Scotland.	946 L St.
Boyle, Eldredge Roger.....	Md.....	Hyattsville, Md.
Brewer, Martha Maria.....	Md.....	118 Massachusetts Ave. N. E.
Brown, Archibald Webster..	Md.....	Sligo, Md.
Browning, Robert Evans....	Md.....	331 Missouri Ave.
Burnside, Charles Fremont.	D. C.....	2020 F St.
Caffery, St. John Liddell....	La.....	2110 O St.
Cameron, Harriet Louise....	Minn....	250 Ninth St. N. E.
Caskey, Rollin R. ....	Ill.....	1331 Twelfth St.
Cassin, William Deakins....	D. C.....	1514 Thirtieth St.
Cavanagh, Richard B. ....	D. C.....	1159 Fourth St. N. E.
Chace, Edward Mackay.....	Md.....	Berwyn, Md.
Chadwick, David V. ....	W. Va...	1113 P St.
Colestock, Harry Ludwig...	Pa.....	608 Third St.
Cotton, W. E. ....	Ia.....	624 Eleventh St. N. E.
Coyle, William Radford....	D. C.....	2818 P St.
Cross, S. Clark.....	D. C.....	912 Fifteenth St.
Crowell, Wm. Butterworth..	Ohio....	1508 Park St.
Cutting, Harry Ormond.....	Wis.....	907 T St.
Dalby, Z. Lewis.....	Va.....	914 Twelfth St.
Davis, George Jacob, Jr....	D. C.....	1320 Eleventh St.
Davis, William Hammet....	D. C.....	1101 K St.
Doerfling, Richard George..	Germany	45 Quincy St. N. E.
Doyle, Aida Mary.....	Pa.....	1902 Third St.
Ecker, John Beard.....	N. Y.....	1219 Sixteenth St.
Eddy, John R. ....	Mass....	1442 S St.

Name.	State.	Address.
Farmer, Harry .....	Ia.....	1433 L St.
Faulkner, William Thomas..	Miss.....	Treasury Department.
Fellows, Harriet Adele .....	Conn.....	1510 Caroline St.
Fletcher, Frank D. ....	N. Y.....	1324 Q St.
Flournoy, Parke P., Jr.....	Md.....	1129 Fourteenth St.
Ford, Ella May.....	Va.....	63 New York Ave. N. E.
Fryer, Alice Jean .....	Cal.....	1212 O St.
Gale, Julius Chisolm .....	Pa.....	1618 Seventeenth St.
Gana, Joachin E.....	Chile....	1319 K St.
Garber, John Absalom.....	D. C.....	317 Ninth St. S. E.
Garner, Harry Summers....	Pa.....	Department of State.
Gates, Otis H.....	Fla.....	Department of Agriculture.
Gibson, Irene.....	Mo.....	1412 Staughton St.
Goding, Anne May.....	D. C.....	1218 Sixth St.
Golden, Ellen.....	N. Y.....	1432 Binney St.
Gray, William.....	Ill.....	1318 I St.
Guerdrum, George Herbert..	Norway.	Anacostia, D. C.
Hackett, William Thomas...	Md.....	Brookland, D. C.
Hayes, Roy Bagley.....	Wis.....	59 N St.
Heald, Emma Pauline.....	Mass....	1324 S St.
Hiatt, James Edgar.....	Ind.....	259 N St.
Hillyer, William Eldridge...	Fla.....	412 A St. S. E.
Holt, Lester Morton.....	Wis.....	Treasury Department.
Hood, Charles Emerson.....	D. C.....	1017 O St.
Illmer, Louis, Jr.....	D. C.....	1301 Riggs St.
Jones, A. Sidney.....	N. C.....	1105 Eighth St.
Karch, Albert Franklin.....	Ill.....	1318 I St.
Keleher, James Power.....	N. Y.....	409 A St. S. E.
Kelly, James Henry.....	N. Y.....	1637 Thirteenth St.
Kramer, Stephen E.....	Ga.....	1315 Q St.
Lacy, John McDowell.....	D. C.....	3013 Cambridge Place.
Lang, Theodore.....	D. C.....	1506 R St.
Lannon, John Anthony.....	Va.....	Alexandria, Va.
Lewis, Noble.....	D. C.....	515 Twelfth St.
Lewis, William Hartley.....	Conn....	3009 Cambridge Place.
Lupton, Ed. Janney Sidwell.	W. Va....	Treasury Department.
Marean, Guy Bennett.....	D. C.....	1900 Lincoln Ave.
Marean, Ralph Brewster.....	Pa.....	Brookland, D. C.

Name.	State.	Address.
Matson, Walter T.....	Mich.....	2144 H St.
McCullough, Laura V.....	Ill.....	406 Eleventh St. N. E.
McCullough, Nathaniel N....	Ill.....	406 Eleventh St. N. E.
Means, Thomas Herbert....	Va.....	1311 Fourteenth St.
Melgs, Orton Love.....	D. C.....	325 Second St. S. E.
Merillat, Margaret Jane....	D. C.....	1430 Elghth St.
Moore, Charles A.....	Colo.....	Post Office Department.
Moulton, Ernest Phillips....	Ohio.....	1331 Twelfth St.
Murphy, William Thackara.	N. J.....	1902 G St.
Novotny, Miles.....	Ill.....	922 I St.
Noyes, Edward Rogers.....	D. C.....	500 Maryland Ave. S. W.
Olberg, Charles R.....	Minn.....	2712 Fourteenth St.
Ottenberg, Jennie.....	D. C.....	1243 Seventh St.
Pasco, William Denham....	Fla.....	201 C St.
Peters, Arthur Stevens.....	D. C.....	1334 Columbia Road.
Peyton, John Beckett, Jr....	D. C.....	207½ Pennsylvania Ave. S. E.
Pierce, Charles Herbert....	Tenn.....	56 P St.
Pierce, Julian Irving.....	Mich.....	101 G St.
Pollok, Alice.....	Md.....	939 M St.
Rawlings, Richard Galt....	D. C.....	604 Ninth St.
Roane, Edward Bertrand...	D. C.....	422 B St. S. E.
Roberts, Edwin E., M. D....	D. C.....	621 East Capitol St.
Sanders, Salvador A.....	D. C.....	538 Eleventh St. S. E.
Schafer, George Conrad....	D. C.....	439 Sixth St. S. W.
Scott, Walter A.....	Ill.....	905 Twenty-second St.
Serrano, Michael Nicholas...	N. Y.....	715 K St.
Shannon, Walter C.....	D. C.....	2311 M St.
Skinner, Frank Eugene.....	Wis.....	Takoma Park, D. C.
Snell, Cora Ethel.....	D. C.....	Takoma Park, D. C.
Spooner, Herbert Horace...	Ia.....	809 Twelfth St.
Stabler, Harold B.....	Md.....	2231 Fifteenth St.
Taggart, Giles Russell.....	N. J.....	1226 G St. N. E.
Thatcher, Frank Hosford...	Ia.....	1016 D St. N. E.
Thompson, Edward Cyrus..	Ia.....	1312 Eighth St.
Thompson, John Ambrose...	D. C.....	1720 H St.
Thompson, Wilford Ashford	Ia.....	1312 Eighth St.
Thorneley, W. Cawthorne...	Pa.....	Government Printing Office.
Todd, George Carroll.....	Va.....	3169 P St.

Name.	State.	Address.
Topping, D. LeRoy.....	N. Y.....	1113 G St.
Tower, Edwin Briggs H., Jr.	N. Y.....	1353 Kenesaw Ave.
Towner, Frank Hough.....	D. C.....	1105 O St.
Townsend, Clinton P.....	La.....	Patent Office.
Twitchell, Mayville William.	N. Y.....	1522 Tenth St.
Underwood, Lineas Dott....	Ohio....	Patent Office.
Upton, Gertrude Eleanor....	Me.....	406 Spruce St.
Weller, Francis R.....	D. C.....	408 C St. S. E.
West, Sara .....	Germany	205 G St.
Wilson, Emmor L.....	D. C.....	1753 Massachusetts Ave.
Workman, Henry Charles...	Mich....	1419 Twentieth St.

### Special Students.

Name.	State.	Address.
Adams, Fannie E.....	N. C.....	1008 N St.
Archibald, Clara Margaret..	D. C.....	1332 W St.
Arrick, Lucy Y.....	D. C.....	1332 Massachusetts Ave..
Baker, Andrew Hull.....	Md.....	326 4½ St.
Bauskett, Helen Virginia....	S. C.....	1408 S St.
Bayly, Margaret .....	D. C.....	1333 Eleventh St.
Beach, Bessie Baldwin.....	Conn....	1416 Eleventh St.
Berry, Frederick B.....	D. C.....	1504 Kenesaw Ave.
Bicksler, Lexie Josephine...	D. C.....	507 Second St. S. E.
Blaine, Robert Gillespie.....	D. C.....	133 C St. S. E.
Bliss, Louis Denton.....	D. C.....	329 T St.
Bourgeat, Mrs. Bella K.....	D. C.....	1817 K St.
Brobst, Daniel W.....	Ind.....	813 Fifteenth St.
Brott, Robert.....	D. C.....	1809 Nineteenth St.
Brown, Nellie Beauchamp..	Ia.....	411 Spruce St.
Browne, Frederick William.	Ia.....	2031 H St.
Bryan, R. Webber.....	D. C.....	1624 Eighteenth St.
Burk, Edmund J.....	N. J.....	Theological Seminary, Va..
Butler, Clarence M.....	Minn....	Bureau of Pensions.
Calvert, Edgar Bassett.....	Ill.....	1811 Fifteenth St.
Callaghan, Margaret G.....	Md.....	Tenleytown, D. C.
Campbell, Mary B.....	Pa.....	Takoma Park, D. C.

Name.	State.	Address.
Carr, Joshua Walter.....	England.	1355 Maryland Ave. N. E.
Cass, Philip Hunter.....	Nebr....	259 N St.
Chaplain, Wilson Corprew...	Va.....	116 Fourth St. S. E.
Chase, Florence P.....	Mo.....	221 E St.
Cross, Anne Gunnell.....	D. C.....	2110 G St.
Curry, Mary Emma.....	Ind.....	1510 Ninth St.
Curtiss, Effie J. ....	Ia.....	1918 I St.
Dalton, Theodore.....	D. C.....	504 B St. S. E.
Duncan, H. M.....	D. C.....	1528 Columbia Road.
Dunlap, Walter Davis.....	Ala.....	914 Twelfth St.
Ehrlich, Sigmund.....	D. C.....	309 F St. N. E.
Fahnestock, Ernest B.....	D. C.....	1770 Massachusetts Ave.
Fell, Joseph William.....	N. Y.....	Documents Office.
Ford, George W.....	Va.....	63 New York Ave. N. E.
Fuller, Mary.....	I. T.....	208 New Jersey Ave. S. E.
Garrison, Carl L.....	Ill.....	1822 Fifteenth St.
Gillis, William Weir.....	Wyo.....	1454 Rhode Island Ave.
Godfrey, Morella White.....	N. Y.....	921 Eleventh St.
Greene, Eliza D.....	Va.....	Alexandria, Va.
Greene, Jane R.....	Va.....	Alexandria, Va.
Happer, Mrs. Emily Foster..	Pa.....	1634 Seventeenth St.
Haugaard, Victor.....	D. C.....	1224 Thirteenth St.
Hawes, Richard Paulison...	N. Y.....	318 Ninth St. N. E.
Hefferman, William A.....	Va.....	306 Tenth St.
Helmus, John.....	D. C.....	1006 S St.
Henry, Alfred J.....	Pa.....	940 P St.
Hindmarsh, Walter.....	Va.....	Patent Office.
Holmes, Charles Wendell....	Md.....	236 North Capitol St.
Holmes, Fannie.....	Ohio.....	227 First St. N. E.
Hooper, John Langdon.....	England.	Hotel Oxford.
Hoyt, Clinton DeWitt.....	Ohio.....	1331 Twelfth St.
Huffman, Oscar C.....	Va.....	906 Fourteenth St.
Hyde, John Lawrence.....	Nebr....	1458 Euclid Place.
Jacobs, Wm. Van Edmondson	Md.....	1224 Fourteenth St.
Johnson, Gardner F.....	Mass....	1331 Twelfth St.
Kaufman, Ray.....	D. C.....	620 H St.
Kelton, Anna Campbell.....	Cal.....	1841 R St.
Kline, John William.....	Md.....	313 Fifth St. S. E.

Name.	State.	Address.
Lamont, Roscoe.....	N. Y.....	1620 Seventeenth St.
Lepper, Frederick William...	Pa.....	825 D St. N. E.
Lewers, Albert M.....	Nev.....	Patent Office.
Lewis, Annie Johnstone.....	N. C.....	1507 Vermont Ave.
Macfarlane, Euphemia.....	D. C.....	920 Sixteenth St.
Maddren, Harold.....	D. C.....	102 Ninth St. S. E.
Marsh, Charles Edmonston..	D. C.....	909 Massachusetts Ave.
McClure, Mary Melicent....	Ind.....	The Cairo.
Mendenhall, Walter Curran.	Ohio.....	U. S. Geological Survey.
Mewshaw, James.....	Md.....	Rockville, Md.
Meyer, Henry Adolph.....	D. C.....	3302 N St.
Mitcham, Frances.....	Ga.....	1009 Thirteenth St.
Mitchell, Walter.....	Mo.....	324 East Capitol St.
Moore, Franklin Proctor....	N. H.....	310 East Capitol St.
Moulton, Hugh K.....	Ohio.....	1331 Twelfth St.
Nussbaum, Sophie.....	D. C.....	Bureau of Education.
Ogden, Ellise Lucy.....	Tenn....	24 Third St. N. E.
O'Neal, Daisy Blanchard....	D. C.....	909 R St.
Orth, Henry, Jr.....	D. C.....	1011 L St.
Osterman, Gilbert John....	Ohio.....	Anacostia, D. C.
Pickens, James Madison....	Ala.....	1937 Thirteenth St.
Powell, Graham H.....	N. Y.....	Oxford Hotel.
Pratt, Edythe.....	D. C.....	24 Iowa Circle.
Priest, William Edwin.....	Pa.....	901 French St.
Proctor, Clarence A.....	D. C.....	1510 Columbia Road.
Quinn, Eva H.....	D. C.....	945 K St.
Rawlings, Kate Elizabeth...	D. C.....	3519 Eslin St.
Rea, George William.....	D. C.....	1310 U St.
Reisner, Fred. F., B. S.....	Mo.....	323 Maple Ave.
Riddleberger, Olive Mizpah..	Va.....	1601 Fifteenth St.
Robinette, Caroline Claribel.	Pa.....	301 Maryland Ave. N. E.
Russ, Arthur B.....	Me.....	9 Ninth St. S. E.
Sanders, Joseph.....	Germany	629 S St.
Schulte, John Ignatius.....	Ia.....	2002 F St.
Simms, Harold Howell.....	D. C.....	1503 Eighth St.
Skinner, Albert Fairfax.....	Va.....	1118 Eleventh St.
Spear, Arthur Prince.....	D. C.....	2650 Fourteenth St.
Spliedt, Edward C.....	D. C.....	907 East Capitol St.

Name.	State.	Address.
Spooner, C. M. C.....	Ia.....	809 Twelfth St.
Stakely, Charles Averette...	Ga.....	1301 Yale St.
Stearns, Alice Wilkinson....	Minn....	406 Florida Ave.
Stetson, Frank Owen.....	D. C.....	1802 R St.
Stetson, Mrs. May F.....	Me.....	228 New Jersey Ave.
Sturges, Mrs. C. M.....	Ohio.....	103 Eleventh St. N. E.
Summers, Alex.....	Tenn....	1115 M St.
Svensson, J. Alfred.....	Sweden..	2017 G St.
Taylor, William Clark.....	Mo.....	1400 Twenty-first St.
Tew, Albert B.....	D. C.....	Anacostia, D. C.
Triepel, Mrs. Emma V.....	N. C.....	1414 Corcoran St.
Turner, Emma Harper.....	Ind.....	221 E St.
Tweedale, Linda M.....	Pa.....	1552 Howard Ave.
Uhler, John Lloyd.....	Va.....	Alexandria, Va.
Ulke, Julius, Jr.....	D. C.....	420 Ninth St.
Wallace, Emma E.....	Pa.....	2824 Fourteenth St.
Waring, Mrs. Lucretia Cole.	Cal.....	2233 Q St.
Watson, Robert.....	D. C.....	931 F St.
Webster, William Lincoln...	D. C.....	21 Virginia Ave. S. W.
Whitney, Flora G.....	N. J.....	617 Maryland Ave. N. E.
Wightman, Mary D.....	Pa.....	1727 Riggs Place.
Wright, Alfred.....	N. Y.....	1903 G St.
Zeigler, Edward O.....	D. C.....	404 W St.

Candidates for degrees..... 121

Special students ..... 121

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Total ..... 242



# THE GRADUATE SCHOOL.

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## Faculty.

**BENAIAH L. WHITMAN, D. D.,**  
President.

**CHARLES E. MUNROE, PH. D.,**  
Dean, and Professor of Chemistry.

**REV. ADONIRAM J. HUNTINGTON, D. D.,**  
Professor of Greek.

**REV. SAMUEL M. SHUTE, D. D.,**  
Emeritus Professor of English.

**J. HOWARD GORE, PH. D.,**  
Professor of Mathematics.

**LEE D. LODGE, PH. D.,**  
Professor of Political Philosophy, and Secretary of the Faculty.

**D. KERFOOT SHUTE, A. B., M. D.,**  
Professor of Anatomy.

**THEODORE N. GILL, PH. D.,**  
Professor of Zoölogy.

**CLEVELAND ABBE, A. M.,**  
Professor of Meteorology.

**HERMAN SCHOENFELD, PH. D.,**  
Professor of German.

## THE COLUMBIAN UNIVERSITY.

REV. J. MACBRIDE STERRETT, D. D.,  
Professor of Philosophy.

EDGAR FRISBY, A. M.,  
Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,  
Professor of Philosophy.

EMIL A. DE SCHWEINITZ, PH. D.,  
Professor of Bio-Chemistry.

FRANK W. CLARKE, S. B.,  
Professor of Mineral Chemistry.

HARVEY W. WILEY, PH. D.,  
Professor of Agricultural Chemistry.

REV. FRANK H. BIGELOW, A. M.,  
Professor of Solar Physics.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology.

HOWARD L. HODGKINS, PH. D.,  
Professor of Mathematics.

EDWARD FARQUHAR, PH. D.,  
Professor of Ancient and Church History.

H. CARRINGTON BOLTON, PH. D.,  
Professor of Bibliography and Bibliology.

LOUIS AMATEIS,  
Professor of Fine Arts as Applied to Architecture.

FRANK A. WOLFF, PH. D.,  
Professor of Electrical Engineering.

**F. LAMSON-SCRIBNER, B. Sc.,**  
Professor of Botany.

**JOSEPH O. HORNBLOWER,**  
Professor of Architecture.

**C. F. MARVIN, M. E.,**  
Associate Professor of Meteorology.

**ELMER S. FARWELL, C. E.,**  
Professor of Mechanical Engineering.

**MARATHON M. RAMSEY, A. M.,**  
Professor of Romance Languages.

**ANDREW F. CRAVEN, Ph. D.,**  
Professor of Economics.

**ALEXANDER S. CHRISTIE, LL. M.,**  
Professor of Mathematical Physics.

**EDWARD B. POLLARD, Ph. D.,**  
Professor of Biblical Literature.

**CHARLES C. SWISHER, Ph. D.,**  
Professor of American and English History.

**FELIX FREYHOLD, C. E.,**  
Professor of Civil Engineering.

**WILLIAM ALLEN WILBUR, A. M.,**  
Professor of English.

**JOHN ST. CLAIR BROOKES,**  
Acting Professor of Latin.

**OTIS T. MASON, Ph. D., LL. D.,**  
Lecturer on Anthropology.

**Board of Directors of University Studies.**

**BENAIAH L. WHITMAN, D. D., President.**

**CHARLES E. MUNROE, PH. D., Dean, and Professor of Chemistry.**

**REV. ADONIRAM J. HUNTINGTON, D. D., Professor of Greek.**

**THEODORE N. GILL, PH. D., Professor of Zoölogy.**

**OTIS T. MASON, PH. D., Lecturer on Anthropology.**

**CLEVELAND ABBE, A. M., Professor of Meteorology.**

**D. KERFOOT SHUTE, A. B., M. D., Professor of Anatomy.**

**J. HOWARD GORE, PH. D., Professor of Mathematics.**

**LEE D. LODGE, PH. D., Secretary, and Professor of Political Philosophy.**

**HERMANN SCHOENFELD, PH. D., Professor of German.**

**REV. J. MACBRIDE STERRETT, D. D., Professor of Philosophy.**

**REV. FRANK H. BIGELOW, A. M., Professor of Solar Physics.**

**CHARLES C. SWISHER, PH. D., Professor of American and English History.**

**WILLIAM ALLEN WILBUR, A. M., Professor of English.**

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The sixth session will begin Wednesday, September the 28th, 1898.

The School will be opened each year with a public address by a member of the Faculty.

**Degrees.**

The degrees of Master of Arts (M. A.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.), are conferred on members of the Graduate School under such regulations as may be established from time to time by the Board of Directors; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors of University Studies.

### **The Masters' Degrees.**

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis.

### **Engineering Degrees.**

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, or Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

### **Doctors' Degrees.**

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in the study at this University of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the results of

original research in their major subject, which theses they shall be prepared to defend before a board of experts.

### **Fees.**

The matriculation fee of candidates for any degree conferred in this School is ten dollars.

The annual fee for instruction and direction of candidates for Masters' degrees is thirty dollars.

The annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree is ninety dollars.

Where laboratory courses are taken, an additional fee is required. The fee for a diploma is ten dollars.

### **Commencement.**

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

### **Theses.**

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official Thesis paper can be purchased from the Registrar of the University.

All theses must be presented to the Dean not later than May 11.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation and to present fifty copies of the printed thesis to the University, through the Dean, to be distributed among learned institutions.

### **Final Examinations.**

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for

degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of the commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

### **Courses of Study in the Graduate School.**

The following courses are offered to students in the Graduate School. Candidates for the degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

#### **English.**

##### **PROFESSOR WILBUR.**

1. **English Literature Seminary.** A wide range of critical reading, with a view to cultivate taste and judgment of literary values in literature of varying types. The works read will include the following:

Lyly's *Euphues*; Bacon's *Essays*; Milton's *Areopagitica*; Taylor's *Holy Dying*; Browne's *Religio Medici* and *Hydriotaphia*; Walton's *Complete Angler*; Bunyan's *Pilgrim's Progress*; Feltham's *Resolves*; Lamb's *Essays of Elia*; Carlyle's *Sartor Resartus*; Spenser's *Faerie Queene*; Shakespeare's *Sonnets*; Milton's *Paradise Lost*; Dryden's *Absalom and Achitophel*; Pope's *Rape of the Lock*; Wordsworth's *Prelude*. All of the works read will be fully discussed and the results embodied in critical essays.

2. **English Literary Criticism.** The history and development of English literary criticism.

3. Shakespeare. Inductive study of Shakespeare's plays, with critical essays upon phases of dramatic art.

4. English Romanticism. The history of English romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

5. Tennyson. A comprehensive study of Tennyson's works; his literary characteristics; his ethical and religious teaching; his indebtedness to his predecessors. A thesis will be required embodying the results of this study in a critical estimate of Tennyson's poetry.

6. The Elements of Style. (1) Sound: An investigation of the phonetic elements of words as a distinct factor in style. (2) Words: The sources and growth of the English vocabulary; the percentage of native words in the English of different writers; comparative values of the native and the foreign elements; the use of words. (3) Sentences: The history of sentence length and sentence form in English prose. (4) Paragraphs: The history of the English paragraph. (5) Whole Compositions: The organization of materials; the principles of composition; the forms of discourse.

### Greek.

#### PROFESSOR HUNTINGTON.

##### I.

To candidates for the Master's Degree one of the following courses is offered:

1. Herodotus and Thucydides.
2. Homer (parts of the Iliad and Odyssey not read in the undergraduate course) and the Lyric Poets.
3. The Attic Orators.

##### II.

To candidates for the degree of Doctor of Philosophy two of the following courses are proposed:

4. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.



**5. The Tragic Poets.****6. Plato or Aristotle.**

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also in Greek Composition, in the Grammar, Philosophy and Literature of the language, and in Greek History and Archeology. They are also required to present a thesis on some subject connected with Greek study.

**Latin.****ACTING PROFESSOR BROOKES.**

Three courses are offered, and selections are made from those works of the authors named below which are not usually read by undergraduates:

1. Plautus, Cicero, Tacitus.
2. Terence, Livy, Pliny the Younger.
3. Lucretius, Catullus, Seneca, Justinian (Institutes).

In connection with each course the following subjects will be studied:

- a. Fragments of Early Latin; Latin Inscriptions (Allen).
- b. Roman Versification (Platner).
- c. The History of Roman Literature (Cruttwell).
- d. Critical Study of Syntax (Peters; Roby).
- e. Latin Composition. (Translations from prose authors to be rendered without preparation into Latin.)
- f. Monthly Essays in Latin upon the authors and their times.
- g. Papers upon the peculiarities of authors and upon the obligations of modern to ancient writers and abstracts of works are assigned.
- h. Review of Roman History; Study of Epochs.
- i. Roman Antiquities (Dr. Smith; Rich).
- j. Comparative Philology.
- k. An exhaustive bibliography of each of the authors read.

For Master of Arts, any one course; for Doctor of Philosophy, any two courses.

**Romance Languages.****PROFESSOR RAMSEY.****FRENCH.**

The following three courses are offered in French literature, dealing with the three most prominent epochs of its history prior to the Revolution:

1. Francis I (1515-47) and the Renaissance.
2. Henry IV (1589-1610).
3. Louis XIV (1643-1715).

In each of these courses the condition of the country at the period in question is studied (largely from French sources), and the important writers are made the subjects of special investigation, the effort throughout being to correlate details and to seek a general tendency of the literary movement.

4. Modern French Syntax and Lexicology.

This course takes up the language at the point where the grammatical text-books leave it. The broader principles of the use and arrangement of words, the expansion and change of their meaning, and the production of new words from material already existing in the language are illustrated by a textual study of the modern masters of French style.

**SPANISH.**

1. Spanish Literature of the Eighteenth Century.

A study of the revival of culture following the War of the Spanish Succession. A general acquaintance with the culmination of Spanish literature in the Golden Era, and the subsequent decline is an implied prerequisite.

2. Spanish Poets of the First Half of the Nineteenth Century.

While this course is made as comprehensive as possible, it naturally centers upon Quintana, Espronceda, Angel de Saavedra, Zorrilla, and Campoamor.

**3. Contemporary Spanish Fiction.**

A comparative study of Valera, Pereda, Pérez, Galdós, and Palacio Valdés, involving the tenets of modern literary criticism in Spain.

**Biblical Literature and Semitic Languages.**

**PROFESSOR POLLARD.**

1. Studies in the Post-Exilic Prophets.

2. The Hebrew Psalter—its origin and growth.

3. Investigations in Hebrew History. As guide, McCurdy's "History, Prophecy and the Monuments."

4. Studies in the Apostolic Age. Based upon Ramsay's "The Church in the Roman Empire."

5. Hebrew. Syntax and selected readings from the Hebrew Bible.

6. The Cognate Semitic Languages. Aramaic, Arabic and Assyrian, as may be required.

7. New Testament Greek. With consideration of Hebraic influence and divergence from classic usage. Selected readings from the New Testament.

**German and Continental History.**

**PROFESSOR SCHOENFELD.**

1. Literary Awakening in Germany in the time of Frederick the Great; critical study of the literary centers, Leipzig, Zürich, Berlin; the literary revolution and the Illuminati; critical investigation of Klopstock's Odes and Wieland's Oberon.

2. History of the Second Classical "Blüteperiode" to the time of Schiller's and Goethe's intimate friendship (1795); detailed investi-

gation into Lessing's *Literaturbriefe*, *Laokoon*, and *Hamburgische Dramaturgie*.

3. Literature of the Renaissance in Germany; influence of the Italian and French Renaissance upon the same. (With special reference to Georg Voigt, Janssen, Burckhardt, L. Geiger.)

4. History of the Middle Ages from the time of the evolution of European States to the rise of the Hohenstaufen Emperors. (Selections from the historical sources will be read and interpreted.)

5. The Political Awakening in the Eighteenth Century; Causes of the French Revolution and the Napoleonic Empire.

6. The Annihilation and Reconstruction of Prussia (H. von Treitschke); the building up of the Modern German Empire (H. von Sybel).

The archives of the National Capital will be utilized for purposes of research.

### **Ancient and Church History.**

#### **PROFESSOR FARQUHAR.**

1. Bible History. Frequent references to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors carefully considered, and the relations of Athenian to modern civilization pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors consulted, and the transition from the ancient to the modern civilization followed.

4. History of Christianity. Study of the development of the church, and its relation to the general progress of mankind. Frequent references to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

**American and English History.**

**PROFESSOR SWISHER.**

**AMERICAN HISTORY.**

1. Era of Exploration and Discovery. Theories respecting early settlements and aboriginal population of the North American Continent based upon Archeology, Ethnology, and Tradition.

2. Colonial History. Social, territorial, and commercial conditions of the English Colonists. Legal and political status of the Colonies, as conceived by Parliament, conflicts with the spirit of Independence developed by the environment of the Colonists. Union consummated through rebellion; Independence through revolution.

3. Constitutional History of the United States—

(a.) The history of the Constitutional principle traced through the early Colonial charters and "the Articles of Confederation" until finally formulated in the Constitution of 1789.

(b.) Construction of the Constitution developed under party issues from the first administration of Washington through the period of division and reconstruction.

4. The History of American Diplomacy. This course undertakes a careful study from original sources of the more important international controversies to which the United States has been a party, from the diplomacy of the Revolution to the report of the Venezuela Commission under President Cleveland.

5. The Rise and Fall of the Slave Power. Slavery as a factor in Colonial history; Impetus given to the system by the Constitution of 1789; Period of annexation and conquest; The causes and consequences of the Mexican war.

6. The History of the American people from 1765 to 1895.

**ENGLISH HISTORY.**

1. English Constitutional History. This course seeks to explain the present working of the English political system from a survey of the whole field of English history. It reviews in detail—

(a.) Early Saxon institutions as they reappear successively after Norman and Tudor absolutism and finally assert themselves under the later Stuarts.

(b.) Party government as developed under the Whig oligarchy of the revolution and during the reign of George III until the final triumph of popular government by the Reform act of 1831.

2. History of English Foreign Policy. England as a continental power; The Policy of Wolsey as realized under Cromwell and William of Orange; Struggle for the balance of power transferred to the seas; England and the Eastern question.

3. England as an Empire; Evolution of the imperial idea; The foundation of the Empire from the Conquest of Jamaica to the Battle of Trafalgar; The Empire as Modified by American History; The Political Situation in Canada, Australia, and South Africa.

4. The English in India. Condition of the peninsula during the Mogul Empire; Establishment of British Supremacy; The Presidencies and the Native States; Strength and weakness of England's position in the Far East.

5. British History from the Roman settlements to the present time.

6. England during the Nineteenth Century; A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation are arranged at the weekly meetings of the seminars of American and English history.

### **Philosophy.**

**PROFESSOR STERRETT.**

1. Aristotle's Ethics and Politics.

2. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.

3. The Ethics of Kant and Hegel's Rechtsphilosophie.

4. Kant's Critique of Pure Reason.

5. Ethics of Kant's Critique of Practical Reason, and Green's Prolegomena to Ethics.

6. Kant's Critique of Practical Reason, and Critique of Judgment.

7. Hegel's Logik and Philosophie des Geistes.

8. The Philosophy of Religion: Hegel and Pfleiderer.

9. The Philosophy of History.

Other desired courses in Ethics and Philosophy may be arranged for with Professor Sterrett.

#### PROFESSOR HARRIS.

Dr. Harris will coöperate with Dr. Sterrett in carrying out additional courses.

10. Philosophy of History.

11. The History of Philosophy.

#### Political Philosophy.

#### PROFESSOR LODGE.

1. A comparative study of the political institutions of France, England, and the United States, based upon Guizot, Taine, Freeman, May, Stubbs, Boutmy, Dicey, Gneist, De Tocqueville, Bryce, C. E. Stevens, Burgess, and Maine.

2. A course in International Law; its genetic idea; its history; its present status, and the specific contributions made by the Government of the United States to the improvement of the law of nations. The work is based upon Wheaton, Calvo, Gallaudet, Lawrence, Hall, Rivier, and Maine, as well as on the material furnished by the archives of the Department of State.

3. Courses in Political Economy, dealing with the problems of socialism, coöperation, and distribution, based upon the chief French, English, Italian, and German authorities.

4. A course on the Theory of the State, being elaborate studies in fundamental political philosophy, with critical examination of the history of speculation upon this subject from Aristotle to Bluntschli.

5. The Economic Interpretation of History.

**Economics.****PROFESSOR CRAVEN.**

1. **The Principles of Public Finance.** The treatment is historical, theoretical, and statistical. Special attention is given to modern systems of taxation.

2. **Political Science.** An historical study of the forms and theories of government, and a comparison of ancient, mediaeval, and modern codes, with special reference to the economic effect of each on the people.

3. **Advanced Political Economy.** A study of the theories of Economic Society, of Social Progress, and of practical Economic Problems.

**Mathematics.****PROFESSOR GORE.**

For the degree of Master of Arts:

1. **Higher Plane Curves; Modern Higher Algebra.**

2. **Mathematical Reading.** Carr's Synopsis of Pure Mathematics; Láska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.

3. **Advanced Integral Calculus; Theory of Equations.**

For the degree of Doctor of Philosophy:

4. **Functions.** General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, Théorie des Fonctions Abéliennes.

**PROFESSOR HODGKINS.**

5. **Differential equations.**

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This is supplemented by lectures



and by the study of Forsyth's Differential Equations (two hours a week).

#### 6. Determinants.

The first part of the year is given to the mastery of some elementary book on Determinants, such as that by Weld. This is followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

### Applied Mathematics.

PROFESSOR \_\_\_\_\_.

1. Geometry of Position, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.

2. Graphic Statics. This science may be studied with either of two objects in view:

(a.) As a part of applied mechanics.

(b.) As a part of Analytical Mechanics, based on geometry of position.

3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

### Mathematical Physics.

PROFESSOR CHRISTIE.

For the degree of Doctor of Philosophy:

1. Analytic Mechanics: Minchin, Price, Lagrange, Jacobi, Hamilton.

2. Spherical Harmonics and allied functions, with applications to mathematical physics: Todhunter, Ferrers, Thomson and Tait, Maxwell, Rayleigh, Heine.

3. Hydrodynamics and Tides: Lamb, Lagrange, Laplace, Airy, Thomson, Ferrel, Darwin.

The advanced student is directed to the original memoirs and assisted in their reading.

The first year in any of these courses may be taken in satisfaction of the requirements for the Master's degree.

### **Solar Physics.**

#### **PROFESSOR BIGELOW.**

Graduate studies, for the degree of Doctor of Philosophy, in Solar Physics in its relation to Meteorology.

1. **Solar Magnetism.** The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for the recent development of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. **Cosmical Electricity and Magnetism.** The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and ether wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. **Terrestrial Magnetism.** The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. **Meteorology.** The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement will be made of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects.

**Theoretical Astronomy.****PROFESSOR FRISBY.**

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this department for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads:

1. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's *Memoir on Olbers' Method*, *Abhandlungen*, Erster Band. Books of reference: Watson's *Astronomy*, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' *Theoria Motus*. Books of reference, as above.

3. An Outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson.

4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen*, Zweiter Band und Dritter Band. Books of reference, as above. The method of the variation of the six elements will be first taught. The other methods of Hansen and of rectangular coördinates will follow if needed.

5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

6. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*.

**Astro-Physics.**

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their

training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

### **Chemistry.**

#### **PROFESSOR MUNROE.**

Courses of graduate study in Chemistry leading to the degree of Master of Arts or of Doctor of Philosophy are offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

#### **PROFESSOR CLARKE.**

Professor Clarke offers to properly equipped students a course of research work in the development of his theory of the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

#### **PROFESSOR WILEY.**

Professor Wiley directs special researches in Agricultural Chemistry, provided that students properly trained in the elements of that science shall present themselves for advanced work.

#### **PROFESSOR DE SCHWEINITZ.**

Professor de Schweinitz offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry—

1. A study of the products of the growth of germs either in the animal body or upon artificial media.
2. The influence of these substances in causing disease and their relation to immunity.
3. The anti-toxins and methods of their preparation.

## **Zoölogy.**

**PROFESSOR GILL.**

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

## **Anthropology.**

**DR. MASON.**

Candidates for the degree of Doctor of Philosophy in this department are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. They should also have pursued a course in psychology, with especial reference to the study of physiology.

The special studies of the department comprise—

1. Study of the races of man.
2. The history of culture (Culturgeschichte) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.
3. The history of the past as revealed in the sciences of archaeology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Haeckel, Hóvelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as text, with readings in the journals of the Anthropological societies.

**Comparative Osteology and Artistic Anatomy.****PROFESSOR SHUTE.**

The special studies in this branch comprise—

1. A brief exposition of the principles of the Evolution of Organic Forms generally; the Vertebrate Form and its Variations, with especial attention to Homologies; the Human Form and its Variations (as affected by occupation, age, sex, disease).

2. Such thoroughness in the descriptions of the several Bones, Joints, and Muscles, and such study of the Superficies of the Living Model as will enable the artist to understand the Statics and Kinetics of the Human Body; Methods of Studying the Proportions of the Human Body, etc.

**Meteorology.****PROFESSOR ABBE.****ASSOCIATE PROFESSOR MARVIN.**

Advanced studies in Meteorology are prosecuted under the three following subdivisions:

**I.—EXPERIMENTAL LABORATORY WORK IN METEOROLOGY.**

In this field of work the student investigates the theories of several meteorological instruments and pushes his study to some decided advance beyond the present state of knowledge. New apparatus is devised and constructed and the nature of its errors investigated theoretically and experimentally. Old series of observations, conducted with imperfect apparatus and under unfavorable conditions, are reduced and corrected in the light of the newest discussions. The laws of such physical phenomena as have to be considered by meteorologists are investigated by laboratory methods; among these, for example, are radiation, conduction and convection of heat, evaporation; the formation of dew, fog, cloud, rain, snow, hail, and lightning; the minute oscillations of wind and pressure; the pressure and

movements of the wind, the absorption of radiations from the sun or earth by the atmosphere; the viscosity of the air, convective resistances, etc.

## II.—PRACTICAL METEOROLOGY.

1. Daily weather charts of all nations.
2. International charts of the northern hemisphere.
3. Methods of projection in cartography.
4. Influence of land and ocean on weather and climate.
5. Empirical rules as to the variability and constancy of weather and climate in general, and computations of the index of variability of climate by the law of errors.
6. Weather types and typical weather charts, both for the United States and for the whole globe.
7. Predictions of daily weather by various methods, such as chance, persistency of current conditions and weather types.
8. Special rules for predicting frost, cold waves, rain, snow, wind.
9. Predictions for one, two, and three days.
10. Long-range predictions for seasons and climates.
11. Precise definition of climate by Hinrich's method, and long-range predictions of Hinrich's climatic exponent.
12. Climates in past geological ages.
13. Codification of empiric and rational rules for prediction.
14. Verification of predictions and the laws of chance involved therein.

## III.—PHYSICAL AND THEORETICAL METEOROLOGY.

1. Insolation.
2. The absorption, conduction, and radiation of heat by the air, the earth, and the ocean, and the resulting distribution of temperature.
3. The thermo-dynamics of the atmosphere.

4. Convective equilibrium.
5. The general circulation of a dry atmosphere on a rotating globe.
6. The influence of oceans and continents, and the motions of the actual atmosphere.
7. Local cyclones and anti-cyclones.
8. Atmospheric waves and tides.
9. The distribution of fog, cloud, rain, and snow.
10. Optical and electrical phenomena.

### **Botany.**

#### **PROFESSOR SCRIBNER.**

1. Advanced systematic study of the various groups and families of plants.
2. Plant histology and special morphology.
3. Plant distribution and economic plants.

### **Geology.**

#### **PROFESSOR MERRILL.**

This department offers a course of advanced study in Physical Geology, both systematic and applied. Besides a reading knowledge of both French and German, a sufficient knowledge of crystallography and the physics of light is required to enable the student to comprehend and utilize the methods employed in microscopic petrography. The course presupposes a knowledge of determinative mineralogy by both blowpipe and qualitative chemical methods. In case the student selects geology as his principal study, it is advised that a course in quantitative chemical analysis be chosen as one of his minor subjects. It is also desirable that the student devote a certain amount of time to the study of topographic engineering, making himself at least acquainted with the methods of surveying, topographic sketching, and plane-table work, if not proficient therein.



During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials; and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation are, from time to time, indicated by the instructor.

During the second year the student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. Upon the thoroughness with which this subject is handled, the accuracy of observation, and the originality manifested must depend in largest measure his qualification for the desired degree. The course is modified to suit individual cases in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work. Particularly favorable facilities are offered in this course for work in petrography and in various branches of economic geology, owing to the extensive systematic series which are found available for study in the exhibition halls of the National Museum. Students in architecture and engineering also find it to their advantage to devote a portion of their time to the subjects presented in this course, giving particular attention to strength, durability, and the general weathering qualities of natural structural materials, as well as to the relative hardness and toughness of rock-masses, their structure and methods of formation.

### Civil Engineering.

#### PROFESSOR FREYHOLD.

1. Advanced course in the Graphic Statics of Building Construction.
2. The theory of suspension, continuous, cantilever, and braced arch bridges, with a more complete course in the design of plate

girders, riveted and pin connected bridges, with working drawings and estimates.

3. Advanced course in Construction—the theory and designing of retaining walls, masonry arches and dams.

4. A thesis the subject of which is to be selected by the student with the approval of the professor of Civil Engineering.

### **Mechanical Engineering.**

**PROFESSOR FARWELL.**

#### **I.**

**For the degree of Mechanical Engineer:**

1. Thermodynamics and its Application to Hot Air, Gas, and Steam Engines.

2. Steam Engines and Boilers; their Design, Construction and Management; Theory and Practice.

3. Design and Construction of Special Machinery; Machine Tools; Hydraulic Machinery; Gas Engines, etc.; Theory and Practice.

4. Design and Construction of Power Plants; Theory and Practice.

5. Engineering Laboratory. Efficiency tests of Engines, Boilers, Pumps, Hydraulic Machinery, etc. Hirn's Analysis.

6. Thesis. This embraces the complete solution and report on some practical engineering problem, which is presented to the candidate as to a practising engineer. It may be a design, or a report on a series of tests or investigations.

In addition to the above the candidate is required to take Mathematics, 7; Least Squares, and Civil Engineering, 11; Construction of Plants and Buildings, in the Corcoran Scientific School.

#### **II.**

For those who are not prepared to take the degree of M. E. the following courses are offered, leading to an advanced degree:

7. Thermodynamics. A critical study of Regnault's experiments, the Carnot cycle, and intropy-temperature diagrams, with references to the works of Clausius, Zenner, Rankine, Thompson and other classical writers on the subject.

8. Analytical Theory of Heat; Fourier, Clausius, Thompson, and others.

### **Electrical Engineering.**

**PROFESSOR WOLFF.**

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year, embracing the following studies:

1. Advanced laboratory work.
2. Designing of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, with drawings, designs, and calculations of the plant, machinery, electric devices, with a full description, report, and estimate of cost.

Concomitant studies in Mechanical Engineering and Advanced Physics are required. Students are recommended to take besides Higher Mathematics, German, French, and Chemistry.

### **Architecture.**

**PROFESSOR HORNBLLOWER.**

**PROFESSOR AMATEIS.**

Classical styles; Interior architecture and decoration; Construction of buildings.

The thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

**Bibliography and Bibliology.****PROFESSOR BOLTON.**

Professor Bolton exercises a general supervision over the bibliographic work done in this department and advises students as to the best methods of work and the accepted methods of presentation of results.

Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at The Columbian University.

**Doctorate Disputation.**

The defence of the theses required of candidates for the degree of Doctor of Philosophy was held publicly in the Hall of the University, June 2, 1897. The candidates who successfully defended their theses, the title of their theses, and the members of the boards attacking the same, were as follows:

Candidate: Charles Arthur Hollick, Ph. B.

Thesis: Palaeobotany of the Yellow Gravel at Bridgeton, New Jersey.

Experts: Dr. Lester F. Ward, Dr. F. H. Knowlton, Mr. Arnold Hague.

Candidate: John Scott Johnson, B. S., A. M.

Thesis: Influence of French Thought on the Formation of the Constitution of the United States.

Experts: Dr. Colyer Meriwether, Mr. Henry Farquhar, Professor Charles C. Swisher.

Candidate: Timothy William Stanton, B. S., M. S.

Thesis: A Comparative Study of the Lower Cretaceous Formations and Faunas of the United States.

Experts: Hon. Charles D. Wolcott, Professor Wm. Bullock Clark, Dr. C. A. White.

**STUDENTS ADMITTED TO SCHOOL OF GRADUATE STUDIES.**  
**Admitted in Attendance.**

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Julius Leopold Arntzen.....	Agricultural Chemistry..	Missouri.....	813 Fifteenth Street.
Joseph William Fell.....	Agricultural Chemistry..	New York.....	Documents Office.
B. S., Trinity College, 1889; M. S., Columbian University, 1897.			
Edward Clark Hudson.....	Biblical Literature.....	Texas.....	U. S. Senate.
A. B., 1884; A. M., 1894, Hiawassee College; A. M., 1894; Ph. D., 1896, Columbian University.			
Frank Darius Simons.....	Agricultural Chemistry..	Indiana.....	1749 Madison Street N. W.
A. B., University of Indiana, 1895; M. S., Columbian University, 1897.			
Virginia Taylor. ....	English.....	Virginia.....	804 I Street N. W.
Graduate 1890, Westchester, Pa., Normal School.			
Ellen Amelia Vinton.....	German Literature.....	Massachusetts....	704 Third Street N. W.
B. S., 1884; M. A., 1897, Wellesley College.			

ADMITTED AS CANDIDATES FOR DEGREES.  
For the Degree of Civil Engineer.

NAME.	RESIDENCE.	ADDRESS.
William Stone Hutton..... Graduate, 1896, Virginia Military Institute.	Indiana.....	1109 Sixteenth Street N. W.
William Mather Lamson..... B. S., Columbian University, 1897.	District of Columbia.....	Anacostia, D. C.

For the Degree of Electrical Engineer.

NAME.	RESIDENCE.	ADDRESS.
Fred Ferguson Reisner.... B. S., Columbian University, 1897.	Missouri.....	323 Maple Avenue N. W.

# For the Degree of Master of Science.

## THE GRADUATE SCHOOL.

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NAME.	TOPIC.	RESIDENCE.	ADDRESS.
William Frederic Biehl..... B. S., Columbian University, 1897.	Political Philosophy, 3..	Ohio .....	1820 Ninth Street N. W.
Nannie Emma Kuhlman..... Graduate Jansen Normal Schule, Bremen, 1871.	Spanish Literature.....	Kansas .....	1218 Sixth Street N. W.
James Richard Hamilton..... B. S., M. D., 1896, Columbian Uni- versity.	Bio Chemistry.....	Texas.....	1327 Q Street N. W.
Eleanor Annie Lamson..... B. S., Columbian University, 1897.	Mathematics, 3 and 5...	District of Colum- bia.	Anacostia, D. C.
Stephen Cookman M.ller..... M. D., Columbian University, 1884; Phar. D., Howard University, 1888.	Mineralogy .....	Minnesota .....	1324 N. Y. Ave. N. W.
Henry Orth, Jr..... M. E., Lehigh University, 1893.	Electricity .....	District of Colum- bia.	1011 L Street N. W.
Jesse Pawling, Jr..... A. B., 1888; A. M., 1893, Philadel- phia High School; B. S., Cor- nell University, 1893.	Mathematics.....	Pennsylvania .....	U. S. Coast and Geo- detic Survey.
Edward George Portner..... B. S., Columbian University, 1897.	Chemistry .....	District of Colum- bia.	1104 Vermont Avenue N. W.
William Skinner..... B. S., Maryland Agricultural Col- lege, 1895.	Agricultural Chemistry.	Maryland.....	College Park, Md.

## For the Degree of Master of Science.

## NAME.

Louise Taylor . . . . .  
 B. A., Wellesley College, 1896.  
 Edward Warren Vail, Jr. . . . .  
 S. B., Worcester Polytechnic Insti-  
 tute, 1893 and 1894.  
 Fletcher Pearce Vietch . . . . .  
 B. S., Maryland Agricultural Col-  
 lege, 1891.  
 George Kuen Woodworth. . . . .  
 Mech. Eng.; Cornell University,  
 1896.



## For the Degree of Master of Arts.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Benjamin Lucius Ancell..... Washington and Lee University.	Ancient and Church History, 4.....	Virginia.....	Theological Seminary, Va.
Lounes Earle Bridgeman..... A. B., Dennison University, 1898.	American History, 4....	Ohio .....	House of Representa- tives.
Edward James Burk .....	Greek.....	Pennsylvania .....	Theological Seminary, Va.
A. B., University of Pennsylvania, 1895.			
Thomas Worthington Cooke.....	Philosophy, 3.....	District of Colum- bia.	1534 I Street N. W.
Ernestine Firman..... University of Zurich.	Chemistry.....	District of Colum- bia.	229 R Street N. E.
Percival Hall..... A. B., Harvard University, 1892.	Mathematics, 3 and 5...	District of Colum- bia.	Kendall Green.
Robert Stockwell Hatcher..... Dresden Gymnasia, 1879; Lycée de l'Ecluse, Paris, 1881.	American History.....	Indiana.....	1140 Connecticut Ave.
Ada Mary Catherine Hartzell..... B. A.; M. E. L., Dickinson Semi- nary, 1883.	English .....	Pennsylvania .....	Forest Glen, Md.
John Walker Holcombe..... A. B., Harvard University, 1875.	English History.....	District of Colum- bia.	1829 Corcoran Street.
Charles Sumner Hyde..... Ph. B., University of Michigan, 1889.	German .....	Wisconsin.....	924 K Street N. W.
Ruth McGowan..... A. B., Columbian University, 1897.	American History.....	Michigan.....	1443 Staughton Street.

## For the Degree of Master of Arts.

NAME.	
Charles Moore.....	McRae.....
A. B., Harvard University, 1878.	Institute, 1896.
Lillian Pace.....	
B. S., Columbian University, 1897.	
Roy Bennett Pace .....	
A. B., Richmond College, 1897.	
Charles Kilbourne Robinson.....	
B. S., Columbian University, 1897.	
George Abert Ross.....	
B. A., William Jewell College, 1893.	
Grace Ross .....	
B. A., Columbian University, 1897.	
Grace Coburn Smith.....	
A. B., Colby University, 1893.	
Evander McIver Sweet, Jr.....	
A. B., Southwestern University, Texas, 1895.	
John Howard Thigpen.....	
A. B., 1892; A. M., 1895, Keachie Male and Female College.	
Henry Edward Tralle.....	
A. B., William Jewell College, 1894.	
Fredrick Cogswell Waite.....	
A. B., University of Minnesota, 1890.	

William James Wallis.....	Mathematics, 3 and 5...	District of Colum- bia.	1435 Chapin Street N. W.
A. B., Dartmouth College, 1894.		Massachusetts.....	1758 Corcoran Street.
William George Ware.....	Ethics.....	Indiana.....	Theological Seminary, Va.
John Armistead Welbourn.....	Philosophy, 8.....		
A. B., Johns Hopkins University, 1896.			
Clarence Rich Wilson.....	Philosophy .....	District of Colum- bia.	912 Seventeenth Street N. W.
A. B., Harvard University, 1896.			

## For the Degree of Doctor of Philosophy.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Eugene Byrnes..... A. B., University of Michigan, 1884; LL B., 1887; LL. M., 1888, Columbian University.	Major, Physical Chemistry; Minors, Electricity; Chemistry.	District of Columbia.	Room 149, U. S. Patent Office.
Victor King Chestnut..... B. S., University of California, 1890.	Major, Plant Chemistry; Minors, Organic Chemistry; Botany.	California.....	Department of Agriculture.
Marion Dorset..... B. S., University of Tennessee, 1893; M. D., Columbian University, 1896.	Major, Bio-Chemistry; Minors, Pathology, Bacteriology.	Pennsylvania.....	1120 New York Avenue N. W.
Charles Russell Ely..... A. B., 1891; A. M., 1897, Yale University; A. M., 1892, Gallaudet College.	Major, Chemistry; Minors, Mineralogy, Botany.	Maryland.....	Kendall Green.
William Hamilton..... A. B., Moravian College, Penn., 1891; A. M., Columbian University, 1894.	Major, English History; Minors, American History, Economics.	Pennsylvania.....	Bureau of Education.
William Perry Hay..... B. S., 1891; M. S., 1892, Butler University.	Major, Zoölogy; Minors Botany, Geology.	District of Columbia.	478 O Street N. W.
Albert Mayer Hilliker..... B. D., Seabury Divinity School, 1890.	Major, Philosophy; Minors, History, Ethics.	Minnesota.....	230 Twelfth Street S. W.

Edwin Rufus Lewis..... A. B., 1861; A. M., 1864, Am- herst College; M. D., 1867, Har- vard University; Union Theo- logical Seminary, 1871.	Major, Biblical Litera- ture; Minors, Philoso- phy, 6 and 7, Ancient and Church History, 1.	District of Colum- bia.	1623 N Street N. W.
Joseph Strayer Mills..... A. B., 1890; A. M., 1893, Western Maryland College.	Major, Chemistry; Mi- nors, Mineralogy, Physics.	Maryland.....	Central High School.
Edwin Barnes Niver..... A. B., Brown University, 1893; B. D., Episcopal Theological School, Cambridge, Mass., 1892; A. M., Columbian University, 1895.	Major Philosophy; Mi- nors, Ethics 1 and 2.	Maryland.....	1332 R Street N. W.
George Edward Patrick..... B. S., 1873; M. S., 1874, Cornell University.	Major, Agricultural Chemistry; Minors, Bacteriology, Bio- chemistry.	Iowa.....	Department of Agricul- ture.
Henry Rogers Pyne..... A. B., 1893; A. M., 1894, Colum- bian University.	Major, Greek; Minors, Latin, French.	Maine.....	145 E. 111th Street N. Y.
Frederick Reed..... A. B., 1881; LL. B., 1886, Har- vard University.	Major, Psychology; Mi- nors, Biology, Phi- losophy.	Pennsylvania....	Chevy Chase.
John Merriam Reynolds..... B. E., 1867; M. E., 1869, Penn. State Normal School; A. M., Columbian University, 1895.	Major, Philosophy; Mi- nors, Continental His- tory, Political Philos- ophy.	Pennsylvania....	1309 Conn. Ave. N. W.
Alexander Summers..... B. A., 1876; M. A., 1893, Univer- sity of Tennessee.	Major, Political Philos- ophy; Minors, Phi- losophy 8, Compar- ative Politics.	Tennessee.....	Bureau of Education.

## For the Degree of Doctor of Philosophy.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Ernest Lawton Thurston..... C. E., Columbian University, 1893.	itics; Cal- culus, Differential Equations. Major, Chemistry; Mi- nor, Mineralogy, Metallurgy.	District of Colum- bia.	1503 R Street N. W.
Cabell Whitehead..... B. M., Lehigh University, 1885; M. S., Columbian University, 1895.	Major, Phanerogamic Botany; Minor, Cryptogamic Bot- any; Geology. Major, Chemistry; Mi- nor, Physical Chem- istry, Electricity.	Idaho .....	1102 N. H. Ave. N. W.
Thomas Albert Williams..... B. S., 1889; A. M., 1891, Univer- sity of Nebraska.		Nebraska .....	Takoma Park.
Thomas Alfred Witherspoon .....		Tennessee.....	U. S. Patent Office.
U. S. Naval Academy, 1883; LL. B., 1891; M. S., 1897, Colum- bian University.			
Total .....			68

# THE SUMMER SCHOOL.

---

## The Faculty.

**BENAIAH L. WHITMAN, D. D.,**  
President.

**M. MONTROSE RAMSEY, A. M.,**  
Director and Professor of Modern Languages.

**WILLIAM A. MAURY, LL. D.,**  
Professor of Law.

**HERMANN SCHOENFELD, PH. D.**  
Professor of Continental History.

**ANDREW F. CRAVEN, PH. D.,**  
Professor of Economics.

**F. LAMSON-SCRIBNER, B. S.,**  
Professor of Botany.

**FRANK A. WOLFF, PH. D.,**  
Professor of Physics.

**WILLIAM ALLEN WILBUR, A. M.,**  
Professor of English.

**ELMER S. FARWELL, C. E.,**  
Professor of Mechanical Engineering.

**WILBUR F. DALES, PH. D.,**  
Associate Professor of Ancient Languages.

**THE COLUMBIAN UNIVERSITY.**

**H. GRANT HODGKINS, A. B.,**  
Instructor in Mathematics.

**PETER FIREMAN, Ph. D.,**  
Instructor in Chemistry.

**EDWARD A. MUIR,**  
Instructor in Mechanical Drawing and Photography.

**EMIL H. MEYER,**  
Instructor in Fine Arts.

**E. HILTON JACKSON, A. M., LL. M.,**  
Instructor in Law and in Law-Latin.

**ALBERT F. FLINT, LL. M.,**  
Instructor in Law.

**MAYVILLE W. TWITCHELL,**  
Instructor in Geology and Mineralogy.

**THOMAS A. WILLIAMS, A. M.,**  
Assistant in Botany.

**THOMAS H. MEANS,**  
Assistant in Physics.

**EDMUND KEMPER BROADUS, A. B.,**  
Assistant in English.

**CHARLES SUMNER HYDE, Ph. B.,**  
Assistant in German.

**E. KENDALL CUTTER,**  
Assistant in English.

**JULES MAILLET,**  
Assistant in French.



**COURSE OF INSTRUCTION.**

**Ancient Languages.**

**PROFESSOR DALES.**

**Greek.**

1. A course for those students who desire to begin Greek. White's *Beginner's Greek Book*. Three hours.\*

2. A rapid review of White's *Beginner's Greek Book*, together with translation of *Anabasis*, Book I, Chapters I-v. This course is designed especially for those students who desire to review their first year's work. Three hours.

3. *Anabasis*, Homer, Herodotus or Lysias; grammar, exercises. Courses will be given in one or more of these authors on application of a sufficient number of students. Especial emphasis laid on translation and constructions. Three hours.

**Latin.**

1. A course for those desiring an introduction to the language. Collar and Daniell's *First Latin Book*. Three hours.

2. A rapid review of the *First Latin Book*. A course designed for those desiring a thorough and rapid review of their first year's work. Three hours.

3. Caesar; grammar, exercises. Especial emphasis laid on translation and constructions. Three hours.

4. Cicero, Vergil, Livy, Ovid, etc. Courses will be given in these authors similar to course 3, on application of a sufficient number of students. Three hours.

**Botany.**

**PROFESSOR LAMSON-SCRIBNER.**

**MR. WILLIAMS.**

Gross anatomy or organography, general morphology, and systematic botany by lectures, recitations, and studies in the field. The

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\* Unless otherwise stated, hours per week throughout the session.

field-work consists of the collection of specimens representing the more general groups of the vegetable kingdom and their preparation for the herbarium. - Special studies of grasses and the plants of the District of Columbia form a feature of the course. Three hours.

### **Chemistry.**

**DR. FIREMAN.**

1. Introduction to the study of Chemistry.
2. A rapid review of Inorganic Chemistry.
3. A rapid review of Organic Chemistry.
4. A series of experiments on the fundamental principles of Chemistry. A laboratory course. Nine hours.
5. Organic preparations. A laboratory course. Eighteen hours.

It is believed that the above courses can be taken with a fair degree of thoroughness during the summer session.

Additional laboratory courses in particular branches of analytical chemistry will be arranged to meet the desires of applicants.

In addition to the regular fee for course 4, each student is charged \$2.50 for materials.

The fee for course 5 is \$20. The chemicals are charged extra, but the preparations are so selected that the total expense for chemicals will not exceed \$10.

### **Continental History.**

**PROFESSOR SCHOENFELD.**

1. History of the Middle Ages from the Migration of Peoples. Two hours.
2. The Napoleonic Era. One hour.
3. The Building up of the Modern German Empire. Two hours.

**Economics.**

**PROFESSOR CRAVEN.**

**1. Finance. Three hours.**

The Science of Money and Credit, with especial reference to present conditions in the financial world. Lectures, notes, collateral reading from Walker, Macleod, Jevons, White, and others.

**2. Politics. Three hours.**

Fundamental principles of government by the people; organization and functions of the Township, County, City, and State.—Diagrams, lectures, notes, readings, and reviews.

**3. Political Economy. Three hours.**

Short text-book studies from Adam Smith, Ricardo, Mill, Gregory, and Marshall. A complete outline of Political Economy is given.

**4. International Law. Three hours.**

Sources, purposes, and economic effects and benefits of International Law. Texts: Woolsey and Gallaudet.

The particular attention of students of law is called to courses 2 and 4.

**English.**

**PROFESSOR WILBUR.**

**MR. BROADUS.**

**MR. CUTTER.**

**MR. CUTTER.**

**1. Practical Rhetoric, with daily Theme-writing. Text-book, *Practical Elements of Rhetoric*, Genung. Three hours.**

**2. Shakespeare. Detailed study of Hamlet and As You Like It (or other tragedy or comedy). Two hours.**

**3. The Elizabethan Dramatists. Two hours.**

Courses 2 and 3 are intended as illustrative of each other, and it is hoped that they will be pursued by the same students.

**MR. BROADUS.**

4. Eighteenth Century Essayists. Two hours.
5. Evolution of the Novel. Two hours.
6. The Romantic Movement in English Poetry (1785-1832). Two hours.
7. Nineteenth Century Poets—English. Two hours.
8. Nineteenth Century Poets—American. Two hours.

**Fine Arts.**

**MR. MEYER.**

1. Sketching from Nature. Landscapes in oil, water color, pencil, charcoal, and wash. Monday, Wednesday, and Friday, from 2 to 6 p. m.

This course is especially adapted to the needs of art students, and of teachers in public and private schools.

2. Free-hand Drawing. To be given both as a general course and as applied to civil engineering and architecture. Four hours.

Other courses in drawing and art will be arranged to suit the wishes of individuals and classes.

**Geology and Mineralogy.**

**MR. TWITCHELL.**

1. A lecture course in Geology for beginners. Two hours.

This course is intended either for general culture or as an introduction to the science of Geology, preliminary to the more extensive courses in the Corcoran Scientific School. The lectures cover

the most important and most interesting facts of the science. Occasional field trips are made in the vicinity of Washington.

2. A rapid review of Dynamical, Structural and Historical Geology. Three hours.

This course consists of a series of "quizzes" on Le Conte's Elements of Geology, and is intended for those who have taken the corresponding course in The Corcoran Scientific School, or its equivalent.

3. A lecture course on the Useful Minerals. Two hours.

This course is intended either for general culture or as an introduction to the science of Mineralogy. The lectures treat of Gems and Precious Stones, Ores, Pigments, etc.

### Law.

PROFESSOR MAURY.

MR. JACKSON.

MR. FLINT.

1. A course comprising a general treatment of bills and notes, partnership, principal and agent, wills, personal property, and criminal law. Four hours.

While this course is specially designed for beginners, it will be found profitable, also, to those who take course 2, whether they be students of law or practitioners.

2. The subject treated in this course is Real Property, the textbook used being the second book of Blackstone's Commentaries. Four hours.

This course, like the above, is designed for beginners, but will be found useful for graduates in law, who desire to review this most important subject.

3. A course comprising a general treatment of Common Law Pleading and Evidence. If time permits, leading heads of Equity Jurisprudence are also considered. Four hours.

This course is of especial value as a preparation for the detailed work in these subjects in the Senior Course in the Law School, and will be found useful also as a review course.

These courses have been arranged because of the desire expressed by many students of law to prosecute their legal studies during the summer months. The work, however, is not designed alone for these, as a special course has been arranged for those who are to begin the study of law, and in outlining the courses the fact has been kept constantly in mind that there is an ever-increasing number of persons who desire to become acquainted with the elementary and underlying principles of law as an indispensable part of a liberal or business education.

The instruction is given almost exclusively by "quizzing," as by this method the progress of the students is most rapid, and the best results can be accomplished, in view of the limited time of the Summer Course.

### **Law-Latin.**

**MR. JACKSON.**

This course is intended for the benefit of law students and members of the profession who have not a working knowledge of Latin, and is designed to make them familiar with the essential principles of the language, while at the same time employing as the material of instruction those maxims and phrases met with daily in practice and in the leading text-books.

A careful selection of four hundred leading maxims has been made and arranged in thirty-two lessons, conducting the student by a gradual and easy process from the most elementary principles of etymology to the more involved constructions of syntax.

The legal bearing of every maxim or phrase is fully set forth, a feature which cannot readily be overestimated, as it is well known that maxims of law remain always "unerring principles of truth, in accordance with which all laws now and hereafter to be made will be interpreted."

Experience gained from classes conducted in previous years warrants the conclusion that the student in this course will become a master of the English method of pronunciation, and, by reason of the constant use of these maxims in the class-room, will have at his tongue's end information that is almost indispensable to the equipment of the successful practitioner. Five hours.

Text-book: Jackson's Law-Latin.

**Mathematics.**

**MR. HODGKINS.**

1. College Algebra, beginning at quadratic equations. Four hours.
2. Solid Geometry. Four hours.
3. Plane Trigonometry. Four hours.
4. Analytic Geometry. Four hours.
5. Elementary Calculus. Four hours.

Classes in Elementary Algebra and Plane Geometry will be formed if desired.

**Mechanical Drawing.**

**MR. MUIR.**

1. A course in Geometrical Problems to teach the beginner the accurate use of his instruments and to acquaint him with the principles and conventional methods of Mechanical Drawing.

2. A course in Patent Office Drawing.

3. A course in the Elements of Projection for beginners.

4. A course in "Working Drawings" of Machine Details.

A number of machine parts of the latest design will be found in the drawing-room. The student is expected to make complete working drawings of these parts, so that he may become familiar with their construction.

5. A course in Working Drawings of Building Details, wood joints, partitions, flooring, trusses, etc.

**Mechanical Engineering.**

**PROFESSOR FARWELL.**

1. Thermodynamics. Four hours.

A study of elementary principles and their application to heat engines.

**2. Elements of Mechanism. Three hours.**

A study of the fundamental principles of Kinematics and Machine Elements. Particular attention will be given to the solution of original problems on trains of elements for the transmission and transformation of motion.

**3. Mechanics of Machinery. Three hours, and constructive exercises.**

A course in Graphical Mechanics. The course will begin with a study of the general theory of Graphics, the graphical representation of quantities, and of arithmetical operations thereon. The principles of Graphics will then be applied to the solution of original problems in Statics, Dynamics, and Kinematics of Machinery.

**4. Elements of Descriptive Geometry and Projections. Three hours, and constructive exercises.**

An introductory course requiring no preparation beyond plane geometry.

**5. Theory of Perspective, and Shades and Shadows. Three hours, and constructive exercises.**

Requires no preparation and is especially adapted to students of architecture and art.

All courses are especially prepared for the student of general science or as an introduction to the advanced subjects. Advanced or technical courses in the above or allied subjects may be arranged upon application.

**Modern Languages.**

**PROFESSOR RAMSEY.**

**MR. HYDE.**

**MR. MAILLET.**

**FRENCH.**

**1. Elementary course, for beginners. Three hours.**

A course designed to give careful drill in French pronunciation, and to lay a firm grammatical foundation for subsequent study.

Text-books: Macmillan's Progressive French Course (first year), and Paul Bercy, La Langue Française.



**2. French Syntax. Two hours.**

Practical treatment of the salient peculiarities of French syntax, with exercises in French composition.

Text-books: Howard's Aids to French Composition and any good reference grammar.

**3. French conversation for beginners. Three hours.**

Simple descriptions of well-known things and places, alternating with questions upon the subject of previous talks, to which the students are required to reply. (No English spoken.)

**4. Causeries sur les événements quotidiens. Two hours.**

A more advanced course of conversations on current topics, based upon a perusal of the French press. (No English spoken.)

**5. French literature. Two hours.**

Twelve lectures, covering the literary history of France from the Roman conquest to the triumph of Romanticism.

**GERMAN.****1. Elementary grammar and composition, with exercises in reading and conversation. Three hours.**

Text-books: Thomas' Practical German Grammar, and Stern's Studien und Plaudereien (first series).

**2. Syntax and advanced composition, with readings from novels and the classics. Two hours.****3. German literature of the classic period. Two hours.****SPANISH.****1. Elementary course. (Similar to course 1 in French.) Three hours.**

Text-books: Ramsey's Text-book of Modern Spanish and Elementary Spanish Reader.

**2. Practice in conversation and newspaper reading. (No English spoken.) Two hours.****3. Spanish literary style, the principles of criticism, syntax, and rhetoric. Two hours.**

**4. Spanish literature. Two hours.**

Twelve lectures, giving an account of the best that has been written in Spanish, from the Poema del Cid to the present day.

**ITALIAN.****1. Elementary course, for beginners. Three hours a week.**

This course is intended to take the student through the rudiments of the grammar and enable him to read easy prose.

**2. Italian phonetics. Two hours.**

A course offering thorough drill in the quality and quantity of Italian voice sounds, pronunciation, and expression. Designed especially for students of vocal music.

Text-book: Grandgent's Italian Grammar and Composition.

**Photography.**

**MR. MUIR.**

An elementary course in Practical Photography, its industrial and technical applications to the various branches of science and engineering. Four hours.

Instruction will be given in the class-room, the field, and the dark room. The work will start at the beginning of the subject, giving all the steps necessary for obtaining the best results. Some photographic experiments with the "Roentgen rays" will be given.

In addition to the regular fee for this course, there will be a small charge for materials.

**Physics.**

**PROFESSOR WOLFF.**

**MR. MEANS.**

**1. General Physics. Three hours.**

The principles of Physics as illustrated by experiment. This course is intended for students without special preparation.

## **2. Laboratory Work.**

A laboratory course for beginners in the fundamental measurements in mechanics, sound, heat, light, electricity, and magnetism. The laboratory will be open daily from 9 a. m. until 8 p. m.

Students in The Corcoran Scientific School taking this course will receive credit for the work done, or more advanced work may be substituted in the regular course.

Fee for either course, \$10; for both courses, \$15.

Arrangements will be made for additional courses in advanced Physics and laboratory methods on request of a sufficient number of properly equipped students.

## **Procedure.**

### **MR. JACKSON.**

**Moot court. Three hours.**

This feature of the law work of the Summer School has been introduced primarily to afford members of the Junior and Senior Classes of the Law School an opportunity to gain some practical experience in procedure prior to their work in the Graduate year.

The work is conducted along the lines pursued in the Graduate course above referred to, the student being required to prepare pleadings, and conduct the case to a verdict, with as much particularity as would be required in actual practice.

An important feature of this class will be the limited number admitted, thus permitting each member to take charge of as many cases as his time or inclination may suggest.

The course is also open to members of the profession who have not entered upon practice, and it will be found of great assistance to those who contemplate taking the bar examination of the District of Columbia.

## **Tuition Fees.**

The fee for one or more courses in one department, exclusive of laboratory courses, is ten dollars.

The payment of twenty dollars admits the student to all the departments of the University, except the laboratory courses, for which

extra fees are charged, according to the announcements made under such courses.

All fees are payable in advance at the time of registration.

### General Statement.

Instruction begins on Monday, June 20th, and continues until Saturday, July 30th.

All courses are open to students of both sexes.

Only those courses are given for which a sufficient number of applicants present themselves. (In former years this number has generally been fixed by the various instructors at from three to five.)

The classes meet between 4.30 and 8.30 o'clock p. m. This permits persons employed in Washington to avail themselves of the courses offered, and gives to those coming from a distance the entire day in which to visit the Government buildings, libraries, and museums, to study, or to do extra work in the laboratories.

The other departments of the University give proper credit for work done in the Summer School to students who are now or may be hereafter enrolled in them.

The attention of teachers is called to the opportunities here offered for continuing their studies under the direction of University instructors. Every effort is made to suit the work to their requirements; and in the laboratory and field courses, especially, individual needs are met.

Present and prospective students of law and medicine will find a number of courses that will be of particular value, both for review and broadening of work done and for preparation for their regular professional duties.

The University buildings, laboratories, and library are open daily, Sunday excepted, from 9 a. m. until 8.30 p. m.

During the session of 1897 desirable rooms, convenient to the University buildings, were to be had at from \$5 to \$10 per month, and good board was offered at from \$15 to \$20 per month. Lists of persons offering rooms and board can be obtained upon application to the Registrar of the University.

For further information regarding the Summer School application may be made to

M. MONTROSE RAMSEY, A. M., *Director,*  
*The Columbian University, Washington, D. C.*

## Students in the Summer School, 1897.

Name.	State.	Address.
Alden, Levi Russell.....	D. C.....	809 L Street.
Arntzen, Julius Leopold.....	Mo.....	813 Fifteenth Street.
Baker, Sibyl.....	D. C.....	1804 Columbia Road.
Bauskett, Helen Virginia...	S. C.....	1408 S Street.
Beach, Bessie Baldwin.....	Conn....	1416 Eleventh Street.
Beeler, George Lowman.....	Ill.....	409 G Street N. E.
Bicksler, Lexie Josephine...	D. C.....	507 Second Street S. E.
Boyd, Henry .....	N. Y.....	2926 Fifteenth Street.
Brackett, Frederick E.....	D. C.....	1310 Rhode Island Ave.
Brewer, Martha Maria.....	Mass....	Lanham, Md.
Briggs, Eda M.....	Ia.....	929 M Street.
Brown, Lorenzo Starr, Jr....	Va.....	1308 Roanoke Street.
Buckelew, Annie E.....	D. C.....	1450 Kenesaw Ave.
Buckelew, Elizabeth B.....	D. C.....	1450 Kenesaw Ave.
Carr, Josiah L.....	England.	1355 Maryland Ave. N. E.
Chez, Joseph .....	Ind.....	611 Sixth Street.
Cooper, George Houston, Jr..	Va.....	1132 Fifth Street.
Daish, John B.....	D. C.....	118 Fourth Street N. E.
Disch, Henry George.....	Wis.....	127 Massachusetts Ave. N. E.
Doyle, Aida Mary.....	Pa.....	1902 Third Street.
Droop, Edward H.....	D. C.....	925 Pennsylvania Ave.
Dumont, Henry Acker.....	N. Y.....	1807 Nineteenth Street.
Ennis, Howard Wilbur.....	D. C.....	2020 R Street.
Foster, Bertram Grey.....	N. Y.....	932 North Carolina Ave. S. E.
Foster, Mrs. Mary.....	Colo.....	135 Carroll Street S. E.
Garnett, Ella Isidora.....	Va.....	908 Fifteenth Street.
Gilliss, William Weir.....	D. C.....	1454 Rhode Island Ave.
Gunnell, John H.....	D. C.....	1765 Q Street.
Halsey, John W. Daniel.....	Va.....	918 L Street.
Hance, Eleanor Wilson.....	Va.....	Cherrydale, Va.
Hayes, Roy Bagley.....	Wis.....	59 N Street.
Heath, Louise.....	D. C.....	528 Spruce Street.
Hinrichs, H. Stanley.....	D. C.....	1213 Q Street.
Hinrichs, William.....	D. C.....	1213 Q Street.
Ho Yow.....	China...	Chinese Legation.
Jackson, Daniel Kerfoot....	Va.....	302 East Capitol Street.

Name.	State.	Address.
Kitchen, Edgar N.....	Kans.....	415 M Street N. E.
Lacy, Lucretia.....	Ill.....	922 I Street.
Lewis, Annie Johnstone....	N. C.....	1507 Vermont Ave.
Lipscomb, Thomas Walker..	Va.....	114 Maryland Ave. N. E.
Lupton, Edward J. S.....	W. Va...	Treasury Department.
McCalmont, Mabel E.....	Pa.....	1310 Rhode Island Ave.
Matthews, William B., Jr...	Va.....	1463 Kenesaw Ave.
Means, Thomas Herbert.....	D. C.....	Brookland, D. C.
Mitchell, Herbert Francis...	N. J.....	220 A Street S. E.
Murphy, Joseph Alexander..	D. C.....	1103 Tenth Street.
Murray, Lucy Emory.....	D. C.....	1437 R Street.
Nelligan, Bert Shaw.....	D. C.....	1911 Sixth Street.
North, Joseph Beverly.....	D. C.....	Anacostia, D. C.
Portner, Edward George....	D. C.....	1104 Vermont Ave.
Prentiss, Spencer B. ....	D. C.....	1218 Ninth Street.
Rhodes, Fred. B.....	Va.....	Eckington, D. C.
Roane, Edward Bertram....	D. C.....	422 B Street S. E.
Rogers, Thomas M.....	Mo.....	211 North Capitol Street.
Rosenbusch, Louise Augusta	D. C.....	1301 Sixteenth Street.
Seltz, Earle W.....	Mo.....	936 New York Ave.
Sellhausen, Armin August...	D. C.....	510 D Street S. E.
Sharp, Edward H.....	Ia.....	222 Third Street.
Skinner, Frank Eugene.....	Wis.....	Takoma Park, D. C.
Snodgrass, John James.....	D. C.....	520 Twenty-first Street.
Spencer, Helen Scribner....	D. C.....	1339 Wallach Place.
Sturgis, Samuel Cryder.....	S. C.....	628 Pennsylvania Ave.
Thatcher, Frank Hosford...	Ia.....	717 Sixth Street N. E.
Thompson, John Ambrose...	D. C....	1720 H Street.
Thorneley, Walter C.....	D. C.....	807 Eleventh Street.
Tindall, Kate.....	D. C....	4 California Ave.
Twitchell, Mayville William.	N. Y.....	1522 Tenth Street.
Warren, Frederick.....	Wyo....	1848 Wyoming Ave.
Webster, William Lincoln....	D. C.....	21 Virginia Ave. S. W.
West, Sara.....	Germany	Lanier Heights.
Wilson, Clarence R.....	D. C.....	912 Farragut Square.
Yancey, K. Lulalia.....	Va.....	South Boston, Va.

Total ..... 72

# LAW SCHOOL.

---

## **Faculty.**

**BENAIAH L. WHITMAN, D. D.,**  
President.

**HON. WALTER S. COX, LL. D., DEAN**  
(Associate Justice of the Supreme Court of the District of Columbia),  
Professor of the Law of Real Property and Contracts.

**HON. JOHN M. HARLAN, LL. D.**  
(Associate Justice of the Supreme Court of the United States),  
Professor of Constitutional Law, Domestic Relations, Torts and  
Personal Property.

**HON. DAVID BREWER, LL. D.**  
(Associate Justice of the Supreme Court of the United States),  
Professor of the Law of Corporations, Equity Jurisprudence and  
International Law.

**HON. WILLIAM A. MAURY, LL. D.**  
(Sometime Assistant Attorney-General of the United States),  
Professor of Common Law and Equity Pleading, Evidence, and the  
Jurisdiction and Practice of the Federal Courts.

**HON. ANDREW C. BRADLEY, LL. D.**  
(Associate Justice of the Supreme Court of the District of Columbia),  
Professor of Commercial Paper and Criminal Law.

**WILLIAM G. JOHNSON, LL. M.**  
(of the Washington Bar),  
Professor of Common Law Practice.

**LEE DAVIS LODGE, PH. D.,**  
Professor of Sociology and Politics.

**THE COLUMBIAN UNIVERSITY.**

**MELVILLE CHURCH, LL. M.,**  
Professor of the Law of Patents.

**WILLIAM F. MATTINGLY, A. M.,**  
(of the Washington Bar),  
Professor of Practical Commercial Law.

**CHARLES W. NEEDHAM, LL. M.**  
(of the Washington Bar),  
Professor of the History of Law, Trusts and Trades Unions, and in  
Charge of the Moot Court Work.

**Court of Appeals.**

**WILLIAM F. MATTINGLY, *Chief Justice.***

**ANDREW B. DUVALL,**  
**CHARLES W. NEEDHAM,** } *Associate Justices.*

The sessions of the Law School are held in the University Building, situated on the southeast corner of Fifteenth and H streets.

**Admission.**

The applicant for admission is required to furnish evidence of having received an education fitting him for the study of law.

The regular course of study embraces three years. There is also a special course of one year in Patent Law.

A student may be admitted to advanced standing upon furnishing evidence that he has spent the necessary time and performed the necessary study, whether in another law school or under the direction of a practicing lawyer. But in all such cases he will be required to sustain an examination on all the subjects for which he asks credit.

The annual session begins on the first Monday in October, and continues until the Wednesday nearest the first of June following.

The exercises of the department begin at six o'clock and occupy the evening of every week day.

The register will be open for the enrollment of students on the first day of September. Seats in the lecture hall will be assigned to students in the order of their registration.



**Course of Instruction.****FIRST YEAR.**

After preliminary lectures on the study of law, the course is as follows:

**HISTORY OF AMERICAN AND ENGLISH LAW.**—Professor Needham.

**DOMESTIC RELATIONS.**—Professor Harlan. "*Brown on Domestic Relations*" and special leading cases.

**PERSONAL PROPERTY.**—Professor Harlan. "*Smith on Personal Property*" and special leading cases.

**TORTS.**—Professor Harlan. "*Pollock on Torts*" and special cases.

Professor Harlan lectures on Monday and Wednesday evenings throughout the year.

**REAL PROPERTY.**—Professor Cox. *Blackstone* or *Williams*.

**CONTRACTS.**—Professor Cox. "*Parsons on Contracts*."

Professor Cox lectures three hours a week during the entire year.

**COMMERCIAL PAPER.**—Professor Bradley.

First year's instruction will be carried on by topical lectures, supplemented by carefully arranged courses of reading and the study of selected cases which state and illustrate the law. There will be a "quiz" upon the lectures and free questionin · permitted by students who desire information upon any subject. "Quiz" classes will be formed, and every facility afforded to the student to aid him in a thorough understanding of the subjects studied.

**SECOND YEAR.**

**COMMON LAW PLEADING.**—Professor Maury. "*Stephen on Pleading* (Tyler).

**EVIDENCE.**—Professor Maury. "*Greenleaf on Evidence*" and special cases.

**EQUITY JURISPRUDENCE.**—Professor Brewer.

**CONSTITUTIONAL LAW.**—Professor Harlan.

**CORPORATIONS.**—Professor Brewer.

**REAL PROPERTY.**—Professor Cox.

**CONTRACTS.**—Professor Cox. "*Parsons on Contracts*" and special cases.

**ORGANIZATION OF TRUSTS AND TRADES UNIONS.**—Professor Needham.

Special courses of reading in text-books and selected cases will be assigned by the professors, and cases will be used in the lectures to illustrate the subject under consideration. Practical work in the preparation of contracts, written obligations of various kinds, will be given to students by the professors, and this work carefully examined. The second year students will be divided into debating classes, and there will be debates and papers upon the subjects gone over in the first and second year's study. Professor Johnson will examine the members of the classes in the first and second years upon the subjects of real estate, evidence and pleading, extending through each year, four hours per week. Some Moot Court work will be assigned during this year.

#### THIRD YEAR.

**CRIMINAL LAW AND PROCEDURE.**—Professor Bradley.

**COMMON LAW PRACTICE.**—Professor Johnson. "*Cox's Common Law Practice*" and selected cases.

**EQUITY PLEADING AND PRACTICE.**—Professor Maury. "*Mitford's and Tyler's Pleadings and Practice in Equity*" and special cases.

**PRACTICAL COMMERCIAL LAW.**—Professor Mattingly.

**INTERNATIONAL LAW.**—Professor Brewer.

**SOCIOLOGY AND POLITICS.**—Professor Lodge.

**MOOT COURTS.**—Professor Needham.

The third year course will also be carried on by special lectures and the study of selected cases; special courses of reading will be assigned, and each student in the third year will take part in the preparation of cases in the Moot Courts, law and equity upon such a statement of facts as a client would give to a lawyer in active practice, the cases to be carried through from the commencement of the action to a final hearing, according to procedure which will be prepared by the professor in charge of the Moot Courts; cases may be taken by appeal to the Appellate Moot Court, thus giving the student practice and drill in determining what actions will lie upon a given state of facts, what defences may be interposed, and the various steps in the conduct of cases in Court. These courts will be presided over by professors and lawyers from the Washington Bar.

### **Patent Law Course.**

A special course in patent law and patent law practice will be conducted by Professor Church, giving thorough preparation to those who contemplate entering that department of jurisprudence. This course covers a period of eight months with two lectures or sessions of the Moot Court each week. The degree of Master of Patent Laws will be conferred upon those who pass satisfactory examinations at the close of the term. Only graduates in law or members of the bar are eligible to the degree, but any person qualified to profit by the instruction offered will be admitted to the course.

### **Examinations.**

Written examinations will be required upon each subject specified in the courses and will be conducted, generally at the conclusion of each subject, but in every case during the term in which the subjects are presented. At the close of the third year a general review and examination will be had. The standing of the student upon the several examinations, and the regularity of his attendance upon the course, will determine his right to the degree.

### **Degree of Bachelor of Laws.**

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

### **Fees and Expenses.**

The tuition fee for the regular course is eighty dollars per year of eight months. This to be paid in advance, monthly or quarterly, at the option of the student. The tuition fee for the Patent Law course is forty dollars. A charge of ten dollars in all cases is made for diplomas.

### **Admission to the Bar.**

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as discharging this requirement.

### **Lecture Privileges.**

Students of the Law School are admitted, without further fee, to the public lectures of the University. Holders of proper degrees are also admitted to the College classes without further fee, but for this privilege application must be made to the Dean of the College. Graduates of the school are admitted to all the undergraduate courses of the school without charge.

### **Library and Reading Room.**

A law library, comprising the works of standard text-writers, the British and American Reports, and books of reference, is open for study and consultation daily from nine o'clock a. m., to ten o'clock p. m. The library is supplied with Law Reviews and Law Periodicals, as well as with other leading reviews and periodicals in science and literature.

### **Prizes.**

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. Myron M. Parker, is awarded each year to the student who passes the best examination in the second year's course.

A prize of \$50, called "The Britton Prize," in honor of its donor, Col. Alexander T. Britton, is awarded each year to the student who passes the best examination for the degree of Bachelor of Laws.

Three prizes, one of \$40, one of \$30, and one of \$20, are annually given to the respective authors of the best three essays handed in by such members of the Third Year Class as shall compete for them and shall pass a successful examination.

Two prizes for excellence in debate are awarded by the Debating Society.

**Prize Men in 1896-'97.**

**M. M. Parker Prize—Joseph Wickes Welsh.**

**A. T. Britton Prize—Wilber Allen Owen.**

**First Essay Prize—George Washington Peterson.**

**Second Essay Prize—Lindley Daniel Clark.**

**Third Essay Prize—William Lewis English.**

**Lee Davis Lodge Prize—Henry Beard Armes.**

**First Debater's Prize—Francis W. H. Clay.**

**Second Debater's Prize—John Thilman Hendrick.**

**Honorable Mention for Excellence in Examination.**

**For the Degree of Bachelor of Laws—Clark Cleland Briggs, Samuel Carroll Ford, Edward Stuyvesant Frith, John Wilmer Latimer, Henry Leonard, Benjamin Martin, Jr.**

**In International Law—Samuel Carroll Ford.**

The University has increased the regular course of study for candidates for the degree of Bachelor of Laws to three years, beginning October, 1898. The work has been largely increased with a view of giving students that thorough knowledge of the general rules of law and practice which will fit them for the Bar of any State. The course will give the general sources of law, the law upon the great subjects of jurisprudence, and the practical side of legal education. The study of special cases upon the various subjects treated and the Moot Court work will be largely increased, thus bringing before the student the modern applications of law by the courts of the country. It is hoped to increase the library, and to provide other lecture rooms, and rooms for the Moot Courts, before the beginning of the fall term in 1898.

The aim of the department is to provide every facility, and so conduct the courses of instruction as shall enable the students to become lawyers in the broadest and best sense.

A Post Graduate Course will be established which will enable students to pursue advanced work for which they will receive the degree of Master of Laws. Announcement of this course will be made later.

**STUDENTS OF LAW.****Graduate Class in Practice.**

Name.	Address.
Bartle, Howell, District of Columbia, B. L., Columbian University, 1897.	1347 T Street.
Blanchard, Howard Ray, Virginia, B. L., Columbian University, 1897.	926 N. Carolina Ave. S. E.
Bradley, Stephen Duncan, District of Columbia, B. L., Columbian University, 1897.	1688 Thirty-first Street.
Brandenburg, Frank Walter, District of Columbia, B. L., Columbian University, 1897.	1745 Pennsylvania Ave.
Church, Frank M., New Jersey, B. S., Georgetown College, Ky., 1896.	507 Fourth Street.
Clark, Lindley Daniel, Tennessee, A. B., Earlham College, 1886. A. M., Mayville College, 1890. B. L., Columbian University, 1897.	1309 Fourteenth Street.
Croxtton, Fred. C., Illinois, B. L., Columbian University, 1897.	907 R Street.
Dalzell, George W., New York, B. L., Columbian University, 1897.	433 Q Street.
Dempf, Joseph A., District of Columbia, B. L., Columbian University, 1897.	311 F Street N. E.
Dye, Leon Lamar, Mississippil, B. L., Columbian University, 1897.	804 I Street.
Haddock, William Rush, Iowa, LL. B., State University Iowa, 1895.	1012 Twelfth Street.
Harper, James E., South Carolina, LL. B., Georgetown University, 1896.	911 Massachusetts Ave.
Harrison, Walton, District of Columbia, LL. B., Georgetown University, 1897.	1139 Tenth Street.
Hawley, Cornell Smith, New York, LL. B., Georgetown University, 1897.	The Colonial.

Name.	Address.
Hesselman, George Jacob, Illinois, B. L., Columbian University, 1897.	620 I Street.
Hinton, John Henry, Missouri, LL. B., Cumberland University, 1879.	1209 K Street.
Johnson, Charles A., District of Co- lumbia, B. L., Columbian University, 1897.	2011 S Street.
Kellogg, Charles Jirah, Louisiana, LL. B., 1894; LL. M., 1897, National University Law School.	1208 M Street.
Latimer, John Wilmer, West Virginia, B. L., Columbian University, 1897.	1767 Madison Street.
Leonard, Henry, District of Columbia, B. L., Columbian University, 1897.	626 D Street S. E.
Lopp, William Henry, Indiana, M. D., B. L., Columbian University, 1897.	906 K Street.
Mackey, George Dallas, Jr., New Jer- sey, B. L., Columbian University, 1897.	Congressional Hotel.
Mehn, William, Louisiana, B. L., Columbian University, 1897.	1838 Sixth Street.
Moore, David Pelton, District of Co- lumbia, B. L., Columbian University, 1897.	2029 O Street.
Phelps, Charles Eugene, Illinois, B. L., Columbian University, 1897.	213 North Capitol Street.
Prentiss, Spencer B., District of Co- lumbia, B. L., Columbian University, 1897.	1218 Ninth Street.
Riddleberger, Ralph H., Virginia, B. L., Columbian University, 1897.	1601 Fifteenth Street.
Smith, William Martin, Ohio, B. L., Columbian University, 1897.	92 M Street.
Snodgrass, John James, District of Co- lumbia, B. L., Columbian University, 1897.	520 Twenty-first Street.
Specht, Augustus Franklin, Pennsyl- vania, B. L., Columbian University, 1897.	445 New Jersey Ave. S. E.

Name.	Address.
Sullivan, Willis Eugene, Idaho, B. L., Columbian University, 1897.	1621 Thirteenth Street.
Talbott, Otho H. W., Maryland, B. L., Columbian University, 1897.	Rockville, Md.
Tarbox, Fred. L., New York, B. L., Columbian University, 1897.	415 B Street S. E.
Tilton, Clark K., District of Columbia, LL. B., Columbian University, 1896.	1435 Corcoran Street.
Vorhees, Philip Barton, Illinois, LL. B., Vanderbilt University, 1897.	1528 Fifteenth Street.
Wells, Cyrus Campbell, Illinois, B. L., Columbian University, 1897.	1204 Massachusetts Ave.
Wells, Robert Wesley, Kansas, LL. B., University of Kansas, 1897.	Hyattsville, Md.
Welsh, Joseph Wickes, Maryland, B. L., Columbian University, 1897.	1725 Twenty-first Street.
Wyant, Claude Caesar, Ohio, A. B., Western Reserve University, 1890.	1700 Q Street.

**Seniors.**

Name.	Address.
Adams, Melvin G., Mississippi, A. B., University of Nashville.	822 Connecticut Ave.
Allen, W. S., West Virginia,	1318 L Street.
Alward, Isaac Quinby Hance, New Jersey,	1518 Caroline Street.
Andrews, Burt W., South Carolina, S. C. Military Academy.	Treasury Department.
Andrews, Khlar M., Pennsylvania,	814 Eleventh Street.
Armes, Henry Beard, New Jersey, A. B., Princeton University, 1896.	Fifteenth Street and Kenesaw Ave.
Auer, Harry Anton, Michigan,	315 S Street N. E.
Austin, Walter Forward, Alabama,	War Department.
Averill, Chester, Massachusetts,	1433 L Street.
Becker, Will J., Illinois, M. E., Royal Polytechnique, Munich, 1891.	6 Iowa Circle.
Bentley, Alexander Garner, District of Columbia, A. B., Yale University, 1896.	1116 Ninth Street.



Name.	Address.
<b>Boisseau, Preston, Virginia,</b>	<b>811 Tenth Street.</b>
<b>Bourn, Byron, Missouri,</b>	<b>1804 M Street.</b>
<b>Bowen, Philander A., Jr., Maryland,</b>	<b>1410 G Street.</b>
<b>Bright, Henry Thurman, District of Columbia,</b>	<b>517 A Street S. E.</b>
<b>Burks, De Paul, California,</b>	<b>1807 H Street.</b>
<b>LL. B., Cumberland University.</b>	
<b>Burnham, Royal Edwin, District of Columbia,</b>	<b>103 C Street S. E.</b>
<b>Bynum, Dickson H., New York,</b>	<b>908 Fifteenth Street.</b>
<b>Byrley, John Henry, Kentucky,</b>	<b>814 Eleventh Street.</b>
<b>A. B., Union College, 1894.</b>	
<b>Campbell, Michael K., Illinois,</b>	<b>Post Office Department.</b>
<b>Carter, Charles Taylor, District of Columbia,</b>	<b>937 Virginia Ave. S. E.</b>
<b>Chapman, Charles McC., New York,</b>	<b>710 Nineteenth Street.</b>
<b>Chase, George Phillips, District of Columbia,</b>	<b>12 Iowa Circle.</b>
<b>B. S., University of Pennsylvania, 1895.</b>	
<b>Chesley, Willoughby Sprigg, Maryland,</b>	<b>1737 Seventeenth Street.</b>
<b>Church, Frank M., New Jersey,</b>	<b>507 Fourth Street.</b>
<b>B. S., Georgetown College, Ky., 1896.</b>	
<b>Clarke, Oscar DeForest, District of Columbia,</b>	<b>232 First Street S. E.</b>
<b>Clarkson, Walter Beaumont, Virginia,</b>	<b>1827 H Street.</b>
<b>Colladay, Edward Francis, Kansas,</b>	
<b>Crist, Frank Wiley, Illinois,</b>	<b>1702 Oregon Ave.</b>
<b>Crittenden, Edgar V., West Virginia,</b>	<b>200 I Street.</b>
<b>Cutright, William Bernard, West Virginia,</b>	<b>213 First Street.</b>
<b>A. B., West Virginia University, 1895.</b>	
<b>Dabney, John Charles, Virginia,</b>	<b>1723 G Street.</b>
<b>B. S., Virginia Polytechnic, 1895.</b>	
<b>Dahlgren, John Bernard, District of Columbia,</b>	<b>6 Lafayette Square.</b>
<b>E. E., Lehigh University, 1890.</b>	
<b>Davis, Fred. L., Pennsylvania,</b>	<b>1125 Fifth Street.</b>
<b>Delaplane, Hammett S., Virginia,</b>	<b>808 Fifth Street N. E.</b>

Name.	Address.
Disch, Henry George, Wisconsin,	126 Mass. Ave. N. E.
Donan, Henry, Kentucky,	1014 Eighth Street.
Eastman, Victor, Chile,	1020 Seventeenth Street.
LL. M., University of Chile.	
Edwards, Ogden Ellery, Jr., New York,	1906 H Street.
B. S., Alabama Polytechnic, 1894.	
Ellison, William McElfresh, Virginia,	West End, Va.
Evans, Samuel Henry, Virginia,	1317 R Street.
Eversfield, Donald, Maryland,	College Park, Md.
A. B., Maryland Agricultural College, 1896.	
Felix, Joseph Doniphan, North Carolina,	1527 I Street.
Fontron, Joseph P., Kansas,	1204 I Street.
Fouse, George C., District of Columbia,	712 Seventh Street S. E.
Fowler, Owen Henry, District of Columbia,	922 I Street.
Frost, Claude S., New York,	1115 S Street.
Godsey, Henry Livingston, Kentucky,	1414 H Street.
Grandy, Wiley Harrison, North Carolina,	1023 Connecticut Ave.
Gray, John Pinkham, Idaho,	1621 Thirteenth Street.
Greist, Lewis Thomas, Indiana,	634 C Street N. E.
Grissom, Eugene, Jr., North Carolina,	249 Eighth Street N. E.
Guynes, Charlie Oscar, Mississippi,	113 Fourth Street S. E.
B. L., Mississippi College.	
Handy, Frederick Chaille, Virginia,	1331 Twelfth Street.
Harris, Charles Gantt, District of Columbia,	1917 Kalorama Ave.
Harris, John Tyre, Missouri,	1220 Eleventh Street.
Hemmings, Frederick Leeth, Illinois,	1461 Florida Ave.
Henry, Robert Pryor, Mississippi,	1115 Rhode Island Ave.
Hobgood, Franklin P., Jr., North Carolina,	1527 I Street.
A. B., Wake Forest College, 1896.	
Holden, Walter Armour, Connecticut,	815 Fifteenth Street.
Holland, William Meredith, Texas,	507 Sixth Street.
Horne, Pearce, Jr., Georgia,	1325 M Street.
Johannes, George, Pennsylvania,	905 North Carolina Ave.
Johnson, Livingston Spotswood, Virginia,	1460 Corcoran Street.

Name.	Address.
Jones, Briggs C., Ohio,	623 Fourth Street.
Kirk, William Frederick, Texas,	Bureau of Labor.
Lee, Harry Holbrook, Ohio,	1620 Fifteenth Street.
Lewis, Howard S., Kansas,	1204 I Street.
Lieuallan, William Grant, Idaho,	808 K Street.
Linkins, Charles, District of Columbia,	1923 G Street.
Loucks, Edwin Osbourne, Illinois,	1911 Fourth Street.
Mason, Wardlaw McGill, Maryland,	1708 L Street.
Matthews, Charles Eugene, Oklahoma,	508 Ninth Street.
McCain, John Richmond, Alabama,	200 D Street.
A. B., Lineville College.	
McDonald, Lewin Stewart, District of Columbia,	717 North Carolina Ave.
McLean, Wallace Donald, District of Columbia,	1414 Park Street.
A. B., Princeton University, 1896.	
Merritt, Norman D., New Jersey,	1013 Sixteenth Street.
Moulton, Alston Brintnall, Massachusetts,	1850 Fifth Street.
B. S., Worcester Polytechnic.	
Nichol, Graham B., Indiana,	113 Maryland Ave. N. E.
Ogden, Herbert G., Jr., District of Columbia,	1610 Riggs Place.
E. E., Cornell University, 1896.	
Oliver, Robert Taylor, District of Columbia,	1725 Riggs Place.
Parker, S. Ross, Missouri,	205 D Street.
Perkins, Adam C., Georgia,	408 Rhode Island Ave.
Powell, Wade H., Georgia,	1206 K Street.
Rappolee, Charles Edward, Kentucky,	1005 Thirteenth Street.
Rees, George S., West Virginia,	911 New York Ave.
Rill, Willard A., New York,	1420 F Street.
Robinson, Walter W. H., Maryland,	606 F Street.
Sarteris, Algernon, District of Columbia,	2111 Massachusetts Ave.
Sellhausen, Armin Frederick, District of Columbia.	510 D Street S. E.
Showalter, J. Roy, Pennsylvania,	808 Twelfth Street.
Shuster, William Morgan, District of Columbia,	1408 Fifteenth Street.

Name.	Address.
Smith, Walter Scott, Alabama,	200 D Street.
A. B., Lineville College, 1896.	
Snell, Theodore Thomas, District of Columbia,	Box 36, 900 F Street.
Snow, Alverar Erastus, Utah,	1322 L Street.
Spotswood, Alexander, Virginia,	808 Eleventh Street.
Stamper, William Stephen, Virginia,	1414 N Street.
Stevens, Paul Walter, Georgia,	901 Thirteenth Street.
Stine, Oliver C., Illinois,	138 E Street N. E.
Stout, John L., Jr., Kentucky,	1011 M Street.
Stuart, Barnwell S., District of Columbia,	1515 Thirty-first Street.
Sullivan, La Verne L., Idaho,	1621 Thirteenth Street.
Tait, Galen Lamar, District of Columbia,	1718 Q Street.
Taylor, Thomas Locke, Virginia,	715 Ninth Street.
Thigpen, Edward Fort, Louisiana,	1005 Thirteenth Street.
A. M., Keachie College, 1896.	
Tindall, Philip, District of Columbia,	2103 California Ave.
Towles, Clarence Spotswood, Virginia,	808 Eleventh Street.
Tralles, Forest Paul, District of Columbia,	Mertz Building.
Vaill, Edward W., Jr., Massachusetts, B. S., Worcester Polytechnic, 1893.	Patent Office.
VanBuren, Arthur B., Virginia,	1432 Q Street.
Varney, Walter Urbach, Virginia,	St. Elmo, Va.
Warfield, Frederic Parkman, New York, A. M., Hamilton College, 1896.	1013 H Street.
White, Herbert Arthur, U. S. A., Iowa, U. S. Military Academy.	Fort Myer, Va.
Whitehead, Frederick Jewell, New Jersey,	200 I Street.
Wilson, Clarence Rich, District of Columbia,	912 Seventeenth Street.
Wilson, Willard B., Illinois,	1115 O Street.
Woolford, Thomas Guy, Maryland,	620 Twenty-second Street.
Worrell, William G., Virginia,	812 Fifth Street N. E.
Wright, John Womack, Tennessee,	1724 Corcoran Street.

**Juniors.**

Name.	Address.
Adams, Asa Allen, Iowa,	Treasury Department.
Andrews, William E., Nebraska,	
Barrus, George W., Massachusetts,	
Beane, William Allen, Indiana,	503 Thirteenth Street.
Berry, Frank D., District of Columbia,	1219 I Street.
Bicksler, Carlton L., District of Columbia,	331 McLean Ave. S. W.
Brewer, A. Farley, Massachusetts,	Wayland Seminary.
Brist, George Louis, Iowa,	
Brock, Paul George, New Jersey,	
Brockett, Bluford Wilson, Maryland,	1509 Rhode Island Ave.
Broun, Cobrun Lee, District of Columbia,	Congressional Hotel.
Butler, Ulysses, District of Columbia,	3425 Holmead Ave.
Butts, Joseph Waddell, New York,	1805 Thirteenth Street.
Chick, John Merle, Pennsylvania,	621 Twenty-third Street.
Clark, R. A., Iowa,	
Coleman, Frederick William, Jr., Maryland,	
Cook, Harry Lee, Tennessee,	1425 New York Ave.
Cooksey, Paul, Kentucky,	222 Second Street N. E.
Coombs, Howard Addison, Illinois,	Laurel, Md.
Cooper, George Houston, Virginia,	1719 H Street.
Cornish, Joseph Shelby, Arkansas,	
Cox, George W., Jr., District of Columbia,	
Craig, Joseph W., Maine,	809 Thirteenth Street.
Cromwell, William Nevarre, District of Columbia,	1011 M Street.
Crooks, James W., Illinois,	Patent Office.
Daniel, Karl J., Virginia,	1132 Fifth Street.
Davis, Charles Arthur, Maryland,	618 Eleventh Street N. E.
Davis, Edwin Lamar, Tennessee,	2821 Fourteenth Street.
Davis, Sidney Hanson, Maryland,	
Denison, Edward Everett, Illinois,	
*Dodd, Lloyd Woodson, Missouri,	1416 U Street.
Draper, Leonard, Texas,	1314 V Street.

\* Died December 25, 1897.

Name.	Address.
Emery, Frederick Azro, Vermont,	Associated Press.
Esterly, Frank C., Minnesota,	1329 G Street.
Evans, Frank P., District of Columbia,	1604 Fifteenth Street.
Evarts, Frank A., Indiana,	1008 M Street.
Fahnestock, Louis, Jr., Minnesota,	1750 S Street.
Flint, Ralph Norton, New York,	24 Quincy Street N. E.
Foster, Bertram Grey, New York,	932 N. Carolina Ave. S. E.
Foster, Daniel Shay, Pennsylvania,	19 Iowa Circle.
Fox, Carl, Mississippi,	1115 Rhode Island Ave.
Freeman, Alvon H., Georgia,	1503 Twelfth Street.
Gardiner, John Urquhart, Wisconsin,	708 Thirteenth Street.
Gardner, Henry C. F., New York,	1115 O Street.
Glover, L. K. C., Virginia,	1731 Thirteenth Street.
Graham, Byron Ulmer, District of Columbia,	516 T Street.
Green, Henry D., Jr., Alabama,	1705 M Street.
Groesbeck, Walter Davis, Michigan,	1320 Wallach Place.
Haden, Charles Franklin, Iowa,	Patent Office.
Halford, Frank, District of Columbia,	1622 Twenty-second Street.
Hall, William Fairfax, District of Columbia,	1003 F Street.
Hallam, William Meade, Kentucky,	504 C Street S. E.
Hargrove, John Lawson, Arkansas,	1112 H Street.
Harris, Josiah G., Kentucky,	1741 Q Street.
Haksworth, Alfred Tennyson, New Hampshire,	459 G Street.
Heth, Robert Mason, Virginia,	1759 Madison Street.
Hittle, James Monroe, Pennsylvania,	1525 I Street.
B. S., Fredonia Institute, 1897.	
Yow, Ho, China,	Chinese Legation.
Howard, Clarence V., District of Columbia,	907 Thirteenth Street.
Huffy, Laurence, District of Columbia,	2204 Q Street.
Hume, F. Charles, Jr., Texas,	1235 Massachusetts Ave.
Israel, Frank Thomas, Nebraska,	1108 Eighth Street.
Jackson, Daniel Kerfoot, Virginia,	809 Thirteenth Street.
Jacobs, Samuel Howard, Virginia,	Falls Church, Va.
Jamison, Paul B., Michigan,	1511 T Street.
Jansen, Thomas Egbert, New York,	1922 H Street.
Jeansen, Carl F., Sweden,	714 Eighteenth Street.

Name.	Address.
Johnson, Clarence Melville, District of Columbia,	1316 Vermont Ave.
Johnston, Robert, Wyoming,	826 Fourteenth Street.
Jolly, Wade Lytton, Iowa,	1809 Lowell Street.
Keener, William Moss, District of Columbia,	805 I Street.
Kline, Aubrey J., Virginia,	1126 Eighth Street.
Lewis, Grenville, Jr., District of Columbia,	1811 Third Street N. E.
Lieuallen, T. T., Missouri,	200 I Street.
Lipscomb, Charles Eppa, District of Columbia,	1006 F Street.
Mark, Henry LeRoy, District of Columbia,	900 F Street.
Mathews, Jerry Autle, Illinois,	907 Westminster Street.
May, George T., Jr., District of Columbia,	2119 F Street.
McClure, James B., Iowa,	310 East Capitol Street.
McMullen, Adam, Nebraska,	1406 S Street.
McRoberts, Charles G., District of Columbia,	302 C Street.
Meade, David Henry, District of Columbia,	902 F Street.
Melbourne, Wilbur F., Missouri,	3043 P Street.
Milans, Joseph Hercus, District of Columbia,	1232 New Hampshire Ave.
Milburn, Charles Coad, Washington,	1122 Thirteenth Street.
Mooney, Edward Lowell, Iowa,	1301 N Street.
Moore, John B., North Carolina,	614 I Street S. E.
Morgan, T. Frank, Virginia,	1015 L Street.
Murphy, Thomas J., North Carolina,	717 H Street.
Norris, William C., District of Columbia,	2110 G Street.
Odor, Cadmus Linden, Ohio,	86 M Street.
Olson, Bert L., Utah,	1530 I Street.
Parker, William Hammond, Pennsylvania,	Navy Department.
Parkes, George Preston, North Dakota,	1005 Eighth Street.
Parmelee, George H., District of Columbia,	705 G Street.

Name.	Address.
Paschal, Samuel Scoville, District of Columbia,	The Victoria.
Patterson, Aloah W., Oregon,	502 B Street N. E.
Peachy, William Samuel, Virginia,	1823 Nineteenth Street.
Pepperman, Walter Leon, Alabama,	1220 H Street.
Perkins, Bishop Chaplin, District of Columbia,	1815 Sixteenth Street.
Pierce, Harry Alleman, District of Columbia,	610 R Street.
Potts, Theron, New York,	16 Fourth Street N. E.
Quarles, A. Hanson, Georgia,	908 L Street.
Reader, Jabe, Texas,	604 M Street.
Reed, John Burns, West Virginia,	308 Seventh Street N. E.
Reinmüller, George William Minnesota,	305 Eleventh Street S. E.
Reinohl, D. Welmer, District of Columbia,	611 Q Street.
Ridgway, Thomas Caldwell, Illinois,	1632 Seventeenth Street.
Rohrback, Howard L., Pennsylvania,	1209 Q Street.
Roots, Edward C., Indiana,	722 Twelfth Street.
Rose, William, Maryland,	1533 Fifteenth Street.
Scully, Thomas Augustus, District of Columbia,	Calumet Place.
Seitz, Earle W., Missouri,	8 Grant Place.
Shaw, John Cassell, District of Columbia,	632 G Street.
Sloan, Austin Clark, Wyoming,	1212 K Street.
Smith, Charles D., Maryland,	Kensington, Md.
Smith, Edgar Adolph, Iowa,	86 M Street.
Snell, Frank H., District of Columbia,	Florida and Conn. Aves.
Sorrells, Will Emory, Georgia,	318 Third Street.
Stallcup, James Alfred, Missouri,	1322 Rhode Island Ave.
Stewart, Nathaniel B., Georgia,	208 First Street N. E.
Strattan, George William, Pennsylvania,	1625 R Street.
Thomas, Frank Hillebert, New York,	1625 R Street.
Thomas, Hillebert Ward, Michigan,	1302 Rhode Island Ave.
Towson, Richard M., Virginia,	800 P Street.
Tracy, A. Lester, District of Columbia, Trembly, Royal Hamilton, District of Columbia,	1326 V Street.



Name.	Address.
Tyssowski, Joseph Gorham, District of Columbia,	1303 Columbia Ave.
Vleth, Henry Alvin, Wisconsin,	318 Second Street S. E.
Weimer, George B., Michigan,	222 Third Street.
Wells, Albert Coulter, Pennsylvania,	1203 Eleventh Street.
Westcott, Charles D., District of Columbia,	1414 Twentieth Street.
Wheeler, Levi Woodbury, New Hampshire,	518 M Street.
White, William Frye, Maine,	1406 L Street.
A. B., Bowdoin College, 1897.	
Wilkinson, W. Harlan, Illinois,	1537 Fifteenth Street.

Students in Patent Law.

Name.	Address.
Barlett, John F., Massachusetts,	1721 P Street.
LL. M., National University, 1897.	
Bevans, James Wilson, District of Columbia,	1114 I Street S. E.
B. L., Columbian University, 1897.	
Brock, George S., District of Columbia,	625 F Street.
Chapman, Charles McC., New York,	710 Nineteenth Street.
Clay, Francis W. H., Kentucky,	1227 Fifteenth Street.
C. E., Cornell University, 1893.	
LL. B., Columbian University, 1896.	
M. L., Columbian University, 1897.	
Davis, Albert G., District of Columbia,	900 F Street.
LL. M., National University, 1897.	
Davis, Charles Sands, Wisconsin,	718 F Street N. E.
LL. B., Georgetown University,	
1896.	
LL. M., Georgetown University,	
1897.	
Davis, Guy Elliott, District of Columbia,	3006 P Street.
LL. B., Columbian University, 1897.	
M. L., Columbian University, 1897.	

Name.	Address.
Dorman, Theodore Taylor, New Jersey, B. S., Massachusetts Institute Technology. M. L., Columbian University, 1897.	1223 Harvard Street.
Farnsworth, Frederick Philip, Connec- ticut, Ph. B., Yale University, 1894. LL. B., Yale University, 1897.	1618 Seventeenth Street.
Giles, Arthur H., District of Columbia, Harrison, Walton, District of Columbia, LL. B., Georgetown University, 1897.	Patent Office. 1139 Tenth Street.
Harriman, Louis Howard, Massachu- setts, LL. M., National University, 1895.	1911 Third Street.
Heard, Nathan, Massachusetts, S. B., Worcester Polytechnic In- stitute. LL. B., National University. LL. M., National University.	315 T Street.
Henning, Edward J., Wisconsin, B. L., University of Wisconsin, 1894. M. L., Columbian University, 1897.	1108 Sixteenth Street.
Holt, John H., Georgia, B. Sc., M. E., E. E., Alabama Poly- technic. LL. B., Georgetown University, 1897.	306 C Street.
Lawson, William C., District of Colum- bia,	913 N. Carolina Ave. S. E.
Sewall, E. D., Massachusetts.	14 Quincy Street N. E.

## RECAPITULATION.

Graduate class in practice.....	39
Seniors .....	119
Juniors .....	135
Students in Patent Law.....	18
Total .....	311

# THE MEDICAL SCHOOL.

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## **The Faculty.**

**BENAIAH L. WHITMAN, D. D.,**  
President.

**E. A. DE SCHWEINITZ, M. D.,**  
Dean, and Professor of Chemistry.

**N. S. LINCOLN, M. D.,**  
Emeritus Professor of Surgery.

**J. FORD THOMPSON, M. D.,**  
Professor of Surgery.

**WILLIAM W. JOHNSTON, M. D.,**  
Professor of the Theory and Practice of Medicine and Professor of  
Clinical Medicine.

**ALBERT F. A. KING, M. D.,**  
Professor of Obstetrics and the Diseases of Women and Children  
and Dean Emeritus.

**D. WEBSTER PRENTISS, M. D.,**  
Professor of Materia Medica and Therapeutics.

**D. KERFOOT SHUTE, M. D.,**  
Professor of Anatomy.

**WILLIAM P. CARR, M. D.,**  
Professor of Physiology.

**H. C. YARROW, M. D.,**  
Professor of Dermatology.

**GEORGE BYRD HARRISON, M. D.,**  
Professor and Clinical Professor of Paediatrics.

## THE COLUMBIAN UNIVERSITY.

HENRY L. E. JOHNSON, M. D.,  
Professor of Gynecology and Professor of Clinical Gynecology.

THOMAS E. McARDLE, M. D.,  
Professor of Minor Surgery.

CHARLES W. RICHARDSON, M. D.,  
Professor of Laryngology and Otology and Professor of Clinical  
Laryngology and Otology.

WILLIAM K. BUTLER, M. D.,  
Professor of Ophthalmology and Professor of Clinical Ophthalmology.

STERLING RUFFIN, M. D.,  
Professor of Medical Jurisprudence.

EDMUND L. TOMPKINS, M. D.,  
Professor and Clinical Professor of Nervous Diseases.

A. R. SHANDS, M. D.,  
Professor of Orthopedic Surgery.

JOHN VAN RENSSELAER, M. D.,  
Professor of Surgical Pathology and Professor of Clinical Surgery.

WALTER REED, M. D.,  
Professor of Pathology and Bacteriology.

W. F. R. PHILLIPS, M. D.,  
Professor of Hygiene.

GEORGE N. ACKER, M. D.,  
Professor of Clinical Medicine and Clinical Professor of the Diseases  
of Children.

G. WYTHE COOK, M. D.,  
Professor of Clinical Medicine.

J. W. BOVÉE, M. D.,  
Professor of Clinical Gynecology.

RANDOLPH R. CARMICHAEL, M. D.,  
Professor of Clinical Dermatology.

T. RITCHIE STONE, M. D.,  
Clinical Professor of Genito-Urinary Diseases.

GEORGE W. FOSTER, M. D.,  
Professor of Mental Diseases.

W. S. WASHBURN, M. D.,  
Professor of Normal Histology and Professor of Clinical Medicine.

OSCAR A. M. McKIMMIE, M. D., 1333 N Street N. W.,  
Examiner of Applicants for Matriculation.

**Demonstrators.**

STERLING RUFFIN, M. D.,  
Demonstrator of Anatomy.

E. G. SEIBERT, M. D.,  
Senior Demonstrator of Chemistry,

A. S. LAWRENCE, M. D.,  
J. H. FORD, M. D.,  
Junior Demonstrators of Chemistry.

FRANCIS P. MORGAN, M. D.,  
Assistant to the Chair of Materia Medica and Therapeutics, and in  
Charge of the Laboratory for Pharmacy.

L. W. GLAZEBROOK, M. D.,  
Curator of the Museum.

J. B. NICHOLS, M. D.,  
V. B. JACKSON, M. D.,  
J. H. FORD, M. D.,  
Demonstrators of Normal Histology.

W. F. R. PHILLIPS, M. D.,  
PRESLEY C. HUNT, M. D.,  
VIRGIL B. JACKSON, M. D.,  
W. M. WOOSTER, M. D.,  
GEORGE B. HEINECKE, M. D.,  
A. B. HOOE, M. D.,  
J. E. JONES, M. D.,  
R. WASHINGTON, M. D.,  
Assistant Demonstrators of Anatomy.

## THE COLUMBIAN UNIVERSITY.

JOHN R. WELLINGTON, M. D.,  
FRANK LEECH, M. D.,  
Demonstrators of Minor Surgery.

EDWARD E. MORSE, M. D.,  
Demonstrator of Obstetrics.

JAMES CARROLL, M. D.,  
Senior Demonstrator of Pathology.

MARION DORSET, M. D.,  
FRANCIS R. HAGNER, M. D.,  
Junior Demonstrators of Pathology and Bacteriology.

GEO. W. JOHNSTON, M. D.,  
In Charge of Clinical Laboratory Instruction.

The seventy-seventh course of lectures begins on Monday, October, 3, 1898.

The Introductory Lecture of the Course will be delivered by Prof. A. F. A. King, on the 3d of October, and the regular lectures will continue throughout the season, beginning at 5.30 p. m. of each week day. The laboratories are open day and evening.

The system of instruction adopted by the Medical School of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otology, Laryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Paediatrics, Minor Surgery, Histology, Pathological Histology, Orthopedic Surgery, and Surgical Pathology.

Laboratory instruction is given in Chemistry, Histology and Pathological Histology, Bacteriology and Pharmacy.

## THE UNIVERSITY HOSPITAL.

Through the assistance of the trustees, Clinical Instruction will be given during the coming session in the Hospital of The Columbian University, attached to the Medical School, and under its exclusive direction. This hospital is in immediate proximity to the

School and will be fully equipped for the purpose of making the student familiar with all the methods of recognizing and treating diseases. In addition, clinical instruction will be given in the various hospitals and dispensaries of the city.

## GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

### Surgery.

#### PROFESSOR THOMPSON,

One of the Attending Surgeons to the Children's Hospital and to the Garfield General Hospital.

The course embraces Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical Instruction at the School.

As Professor Thompson is the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institutions.

Every effort is made to teach Surgery in accordance with the latest developments of scientific research. At the School operations are performed upon the cadaver, and the uses of all important surgical instruments and appliances are demonstrated in the same manner.

**Minor Surgery.**—Practical class instruction is given by Professor McArdle and his assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

### Theory and Practice of Medicine.

#### PROFESSOR JOHNSTON,

One of the Consulting Physicians to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

It is earnestly enjoined upon the student to pay special attention to the course in Histology during the second year, as this is essential to a proper understanding of the internal diseases of the human body. The courses in pathology and bacteriology should also receive the closest study, for without a clear knowledge of these subjects no satisfactory advance can be made.

The method of instruction employed in this subject is as follows:

1. Lectures at the School, with occasional recitations.
2. Clinical lectures at the University Hospital, with practical instruction in the art of diagnosis and in the methods of taking and recording histories of medical cases.
3. Demonstration of the use of instruments of research for the clinical study of the sputum, blood, feces, etc.

### **Obstetrics and the Diseases of Women and Children.**

**PROFESSOR KING,**

One of the Consulting Physicians to the Children's Hospital.

This course comprises a series of lectures on the Science and Practice of Midwifery, together with additional lectures on Gynecology. The main purpose of the lecturer is to explain, impress, and simplify the matters to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. With this view the lectures are illustrated by diagrams, models, natural preparations, manikins, and instruments.

The Demonstrator of Obstetrics, Dr. Edward E. Morse, gives cases of labor to advanced students, and demonstrates obstetric operations and allows students to perform these operations upon the manikin, under his direction. This course is limited to fourth-year students, and all are advised to take it before becoming candidates for graduation.

In the Department of Gynecology the various instruments and appliances used in treating the diseases of women are exhibited and their uses fully explained.

### **Materia Medica and Therapeutics.**

**PROFESSOR PRENTISS,**

One of the Consulting Physicians to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

In the course of instruction pertaining to this chair especial prominence is given to the physiological action of medicines and their therapeutic uses.



The value of a knowledge of Pharmacy and of the Natural History and Chemical Relations of the *Materia Medica* is not overlooked, but time does not admit of their being considered in detail in the lecture-room. Practical instruction in these subjects is given in the Pharmacy Laboratory.

The art of prescribing has a place in the consideration of individual drugs, particularly with reference to appropriate combinations, much of the success of the practitioner depending upon the practical application of his knowledge in the sick room.

The professor endeavors to make his instruction as practical as possible. The lectures are supplemented by working prescriptions and blackboard illustrations, as occasion admits. In the instruction given by this chair the metric system is used exclusively.

### **Anatomy.**

#### **PROFESSOR SHUTE,**

Ophthalmic Surgeon to the Washington Hospital for Foundlings.

This course of lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body may be acquired during the two courses of lectures, which each student attends, to qualify him for the practice of medicine, if at the same time he does his duty in the dissecting-room.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopicon is also employed constantly to present photographic views of many regions of the body.

Special attention is given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the medical profession.

Public oral examinations are conducted by the lecturer from time to time.

The prosectors prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

Practical Anatomy.—The dissecting-room of the School is large, thoroughly ventilated, well lighted, and furnished with every

requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied. The room is open during the day and night until 11 p. m., and on some occasions even later. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who is present at stated hours to give personal attention to the students and properly to instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

### **Chemistry and Toxicology.**

#### **PROFESSOR DE SCHWEINITZ,**

Director of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces—

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions, are studied.

Due attention is given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction is given in the general methods of qualitative and quantitative analysis, volumetric analysis, toxicology, urine analysis, water analysis, and special clinical analysis.

Opportunity for advanced work in biochemistry is afforded.

### **Physiology.**

#### **PROFESSOR CARR,**

Attending Surgeon to the Central Dispensary and Emergency Hospital.

Every effort is made to teach this subject in a thorough, scientific, and practical manner. The ground is fully covered by a two years' course of lectures, and these lectures so illustrated by modern diagrams, models, and experiments as to make them clear in every

detail. Especial emphasis is given to those truths that have a practical value.

Physiological anatomy receives special attention, and is illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anaesthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy is also taught by Professor Washburn in the laboratory and an opportunity is given students to do practical physiological work as far as their time will permit.

### **Dermatology.**

#### **PROFESSOR YARROW,**

**One of the Consulting Physicians to the Garfield Hospital.**

Professor Yarrow gives lectures on this subject, illustrated by diagrams, models, photographic illustrations of disease from life, and also the exhibition of cases. In connection with the course clinical instruction is given at the Central Dispensary and Emergency Hospital by Dr. Carmichael, where an abundance of material affords excellent clinical advantages.

### **Paediatrics.**

#### **PROFESSOR HARRISON,**

**In Charge of the Department of General Medicine, Central Dispensary and Emergency Hospital.**

Professor Harrison lectures upon diseases of infants and children and the importance of their proper management by diet and hygiene.

### **Gynecology.**

#### **PROFESSOR JOHNSON,**

**In Charge of the Department of Gynecology, Central Dispensary and Emergency Hospital.**

Professor Johnson illustrates his lectures upon the diseases peculiar to women by clinical demonstrations at the hospital.

**[Minor Surgery.****PROFESSOR McARDLE,**

One of the Assistant Physicians to the Children's Hospital.

Professor McArdle's course in Minor Surgery consists of lectures and practical demonstrations. Under the supervision of his assistants the students themselves apply the various splints, bandages, surgical dressings, etc.

**Ophthalmology.****PROFESSOR BUTLER,**

Ophthalmologist at Garfield Hospital and in Charge of the Lutheran Eye and Ear Infirmary.

Professor Butler gives a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

**Medical Jurisprudence.****PROFESSOR RUFFIN,**

One of the Visiting Physicians to the Home for Incurables.

Professor Ruffin deals with the relations of Physicians to matters under legal investigation. This course covers as fully and practically as possible the more important subjects of forensic medicine. Students are taught to give expert testimony and how to conduct themselves as medical witnesses.

**Laryngology and Otology.****PROFESSOR RICHARDSON,**

Laryngologist to the Providence Hospital.

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

**Nervous Diseases.**

**PROFESSOR TOMPKINS,**

In charge of the Department of Nervous Diseases at the Central Dispensary and Emergency Hospital.

Professor Tompkins lectures upon the more common and important of these affections.

**Surgical Pathology.**

**PROFESSOR VAN RENSSELAER,**

One of the Surgeons to the Garfield Hospital.

Dr. Van Rensselaer gives a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

**Orthopedic Surgery.**

**PROFESSOR SHANDS.**

This course embraces didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction of treatment of the same according to the most modern orthopedic methods.

Special attention is given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures. There are afforded also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction is given in the application and use of plaster of Paris in treatment of Pott's Disease, Scoliosis, Club Feet, etc.

**Hygiene.**

**PROFESSOR PHILLIPS,**

In charge of the Section of Climatology, U. S. Weather Bureau.

The course in hygiene is directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation

of health and the prevention of disease; it comprises also the consideration of the laws of hygiene as applied to the individual and to the community.

### **Pathology and Bacteriology.**

**PROFESSOR REED,**

Curator of the Army Medical Museum and Professor of Clinical and Sanitary Microscopy  
in the Army Medical School.

The course in bacteriology consists of practical work, as far as possible, in the bacteriological laboratory. The student is here taught the preparation of culture media, the principles of disinfection and sterilization and the methods of cultivating, staining and studying bacteria. Familiarity with the biological character of pathogenic bacteria is considered an important part of the course.

The course in pathology begins with the study of inflammation, and takes up in regular order the pathological histology of the several diseases of the liver, heart and blood vessels, the lung, kidney, spleen and intestine. Microscopical sections are given out which are to be stained, mounted and carefully studied.

### **Histology.**

**PROFESSOR WASHBURN.**

The study of Histology is compulsory for students in the second year of their course. Special attention is given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of the body. The histological laboratory, open both day and evening, is equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations are held at the close of the session.

### **Mental Diseases.**

**PROFESSOR FOSTER,**

One of the Assistant Physicians to the Government Hospital for the Insane, St Elizabeth's.

A series of lectures is given upon the subject of insanity in its varied forms. Clinical instruction is also given at the hospital.

### **Pharmacy.**

**DR. MORGAN.**

Instruction in this course is directed especially to the following divisions of the subject: 1. The official preparations of the U. S. Pharmacopoeia. 2. Incompatibles. 3. Prescription writing. 4. Antidotes to poison.

Each of these subjects is taught by laboratory work and practical exercises.

### **Laboratory Instruction.**

The laboratories are furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology, Clinical Medicine, and Pharmacy, as above described.

The Pathological Museum is equipped with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the deputy coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the collection.

### **Clinical Instruction.**

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, is required, and upon other clinics as indicated by the special clinical card. When the student presents himself for examination a certificate to this effect must be furnished.

**THE UNIVERSITY HOSPITAL.**—Clinical teaching will be conducted in this hospital in conjunction with the didactic lectures in the various branches. The convenient location and the fact that the hospital is under the immediate control of the Medical Faculty offer unusual advantages to the students of this School.

**Garfield Hospital.**—Clinical Lectures are given regularly during the session by Professors Thompson and Van Rensselaer on Surgery, and by Professor Cook and Claytor on Medicine, Carmichael on Dermatology, and Butler on Ophthalmology. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

**Children's Hospital.**—A weekly course of Medical and Surgical Clinics is given by Professors W. W. Johnston, Thompson, and

**Acker.** An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

**Central Dispensary and Emergency Hospital.**—Dr. Shands, on general medicine; Dr. Tompkins, in charge of nervous diseases; Dr. H. L. E. Johnson, in charge of the department of diseases of women; Dr. Carmichael, in dermatology, and Dr. Stone, in genito-urinary diseases, conduct courses of instruction in their respective branches.

**Providence Hospital.**—Clinical instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Professor J. W. Bovée.

**Lutheran Eye and Ear Infirmary.**—The diseases of the eye and ear in this hospital are demonstrated during the clinics of Professor Butler.

**Episcopal Hospital.**—Dr. Richardson shows cases of diseases of the nose, throat, and ear in the dispensary service of this hospital.

**Columbia Hospital.**—Clinics and gynecological operations by Dr. Bovée.

### **Requirements for Matriculation and Graduation.**

I. Candidates for matriculation are required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments from some college.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra or Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be admitted to matriculation.

Dr. O. A. M. McKimmie, 1333 N Street N. W., will give further information in regard to instruction in Latin, Physics, etc.



II. Candidates for the degree of Doctor of Medicine must have attended four courses of lectures, the subjects arranged as follows:

**FIRST YEAR.**

Unless otherwise stated, numbers indicated below mean hours per week.

**Anatomy.**—Two lectures, before Christmas; three lectures, after Christmas.

**Physiology.**—Two lectures, before Christmas; three lectures, after Christmas.

**Chemistry.**—Three lectures, before Christmas; two lectures, after Christmas; three hours laboratory work.

**Materia Medica and Therapeutics.**—Three lectures, before Christmas; two lectures, after Christmas; one hour laboratory work.

**Practical Anatomy.**—Dissection-room open during the day and until 11 o'clock at night.

Examination at the end of the year upon the above-named subjects.

**SECOND YEAR.**

**Anatomy.**—Two lectures, before Christmas; three lectures, after Christmas.

**Physiology.**—Two lectures, before Christmas; three lectures, after Christmas.

**Chemistry.**—Three lectures, before Christmas; two lectures, after Christmas; four hours laboratory work.

**Materia Medica and Therapeutics.**—Three lectures, before Christmas; two lectures, after Christmas; one hour laboratory work.

**Histology.**—Laboratory.

**Practical Anatomy.**—Dissection-room open all day and until 11 o'clock at night.

Examination at the end of this year upon the above-named subjects.

**THIRD YEAR.**

**Surgery.**—Three lectures, before Christmas; two lectures, after Christmas.

**Medicine.**—Two lectures, before Christmas; three lectures, after Christmas.

**Obstetrics.**—Three lectures, before Christmas; two lectures, after Christmas.

**Minor Surgery.**—One lecture, from October 6 to December 13, bandaging, etc., in the manikin-room.

**Dermatology.**—One lecture, from January 5 to March 17.

**Ophthalmology.**—One lecture, from October 4 to December 6.

**Bacteriology and Pathology.**—Eight hours laboratory work per week.

**Surgical Pathology.**—One lecture, from October 8 to December 10.  
**Clinics.**

**Examination** on the above-named subjects at the end of the year.

#### FOURTH YEAR.

**Surgery.**—Three lectures, before Christmas; two lectures, after Christmas.

**Medicine.**—Two lectures, before Christmas; three lectures, after Christmas. Clinics and laboratory instruction.

**Obstetrics.**—Three lectures, before Christmas; two lectures, after Christmas.

**Gynecology.**—One lecture, from January 5 to March 9.

**Mental Diseases.**—One lecture, from January 3 to March 14.

**Medical Jurisprudence.**—One lecture, from October 6 to December 15.

**Nervous Diseases.**—One lecture, from January 7 to March 11.

**Paediatrics.**—One lecture, from October 3, to December 5.

**Otology and Laryngology.**—One hour, from October 31 to December 19, and from January 2 to March 20.

**Orthopedic Surgery.**—One lecture, from January 9 to March 11

**Hygiene.**—One lecture, from January 4 to March 8.

**Clinics.**

**Final examination** at the close of the fourth year upon the above-named subjects.

III. Students of other institutions who have attended one course of lectures in any regular medical school are placed upon the same footing with those who have attended one course in this School, and those who have attended two (or three) courses of lectures in any other regular college or colleges rank with those who have attended two (or three) courses in this institution, and the same privileges as regards examination are extended to them; they are admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own stu-

dents during the first, second, and third years, as previously described.

IV. Candidates for graduation must have studied medicine four years. They must be of good moral character and at least twenty-one years of age.

V. The candidate must have dissected for at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended also two courses of clinical instruction in Medicine and Surgery.

VI. One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination is both written and oral. The examination for the degree is held at the end of the session in April.

The diploma is granted only at the Annual Commencement in June.

VII. Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

VIII. Students who fail to pass the examinations in the spring are allowed a reëxamination in the following fall.

#### ● Clinics Given in 1897-98.

##### AT THE GARFIELD HOSPITAL.

**Surgery.**—Dr. Thompson, Sundays at 10.30, November to April. Dr. Van Rensselaer, Sundays at 10.30, October 1 to November 1.

**Medicine.**—Dr. Acker, Tuesdays and Thursdays, 4 to 5, October 1 to January 1. Dr. Cook, Tuesdays and Thursdays, 4 to 5, January 1 to April 1.

**Medical Dispensary Service.**—Dr. Claytor, Mondays, Wednesdays and Fridays at 2 p. m.

**Surgical Dispensary Service.**—Dr. Wellington, Tuesdays, Thursdays and Saturdays at 2 p. m.

## AT THE CHILDREN'S HOSPITAL.

Medicine.—Dr. Johnston, Saturdays, 4 to 5, October 1 to January 1.  
Children's Diseases.—Dr. Acker, January 1 to April 1, Saturdays at 4 p. m.

Surgery.—Dr. Thompson, Tuesdays, 2 p. m., October to April. Dr. McArdle, Saturdays at 2 p. m.

Medical Dispensary Service.—Dr. Leech, Tuesdays, Thursdays and Saturdays at 2 p. m.

Surgical Dispensary Service.—Dr. Wellington, Mondays, Wednesdays and Fridays at 2 p. m.

## AT THE CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.

Gynecology.—Dr. H. L. E. Johnson, Sundays at 1 p. m., October to April (fourth year).

Medicine.—Dr. Harrison; associate, Dr. Shands; Tuesdays and Fridays, 2 to 3 p. m.

Nervous Diseases.—Dr. Tompkins, Mondays at 12 noon (fourth year).

Surgery.—Dr. W. P. Carr, daily at 10 a. m., October 1 to January 15, and Thursdays at 5.30 p. m., October to April.

Genito-Urinary.—Dr. T. R. Stone, Tuesdays 9 to 10 a. m. (fourth year).

Dermatology.—Dr. Carmichael, Thursdays and Mondays, 12 m. (third year).

## AT THE LUTHERAN DISPENSARY.

Ophthalmology.—Dr. Butler, Tuesdays at 1 p. m. (third year).

## EPISCOPAL EYE, EAR AND THROAT HOSPITAL.

Otology and Laryngology.—Dr. Richardson, Saturdays at 1.30 p. m., November and December (fourth year).

## AT PROVIDENCE HOSPITAL AND AT COLUMBIA HOSPITAL BY SPECIAL INVITATION.

Gynecology.—Dr. Bovée, Mondays and Thursdays (fourth year).

Obstetrical Demonstrations will be given by Dr. E. E. Morse to fourth year students. Cases will be supplied.

**Schedule of Clinical Instruction, 1898-'99.**

Clinics at the University Hospital will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, Surgical Clinics, by Professor Thompson, at Garfield Hospital and at the Children's Hospital, during the entire course, and by Dr. Van Rensselaer at the Garfield, and by Dr. Carr at the Emergency Hospital.

Medical Clinics, by Professor Johnston, at Children's Hospital; by Professor Claytor at the Garfield Hospital, and by Professor G. Wythe Cook at the Garfield Hospital.

Clinics on the special branches are given by Professor Acker, at the Children's Hospital, from January to April; by Professor H. L. E. Johnson, at the Emergency Hospital, on Gynecology; by Professor J. W. Bovée, at Providence, on Gynecology; by Professor Richardson, on Laryngology and Otology, at the Lutheran Eye and Ear Infirmary; by Professor Butler, on the Diseases of the Eye, at the Lutheran Eye and Ear Infirmary and Garfield Hospital, and by Professor Tompkins, on the Diseases of the Nervous System; Dr. Shands, in Medicine; Dr. Carmichael, in Dermatology, and Dr. T. R. Stone, in Genito-urinary Diseases, at the Emergency Hospital.

When the student presents himself for graduation he must furnish a certificate from Drs. Thompson, Van Rensselaer or Carr that he has attended two full courses of instruction in clinical surgery, and from Drs. Johnston, Acker, Cook or Claytor that he has attended two full courses of clinical medicine.

**LECTURES.—FIRST YEAR, 1898-'99.**  
**BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.				PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	PHARMACY.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.				CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8.30	PHYSIOLOGY. Lower Room.			PRACTICAL ANAT- OMY.	PHARMACY.	

## LECTURES.—SECOND YEAR, 1898-'99.

## BEFORE CHRISTMAS.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30		CHEMISTRY. Laboratory.		CHEMISTRY. Laboratory.		PHARMACY.

## AFTER CHRISTMAS.

Hours	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.		HISTOLOGY. Laboratory.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY Upper Room.	HISTOLOGY. Laboratory.	ANATOMY. Upper Room.	MATERIA MEDICA
7.30	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.		PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8.30	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.			PHARMACY.	CHEMISTRY. Laboratory.

## LECTURES.—THIRD YEAR, 1898-'99.

## BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.		SURGERY. Upper Room.		SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.	(Oct. 4 to Dec 6.) OPHTHALMOLOGY. Upper Room.	OBSTETRICS. Lower Room.		OBSTETRICS. Upper Room.	(Oct. 8 to Dec. 10.) SURGICAL PATHOL- OGY. Upper Room.
7.30	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.	
8.30	BACTERIOLOGY. Laboratory.		BACTERIOLOGY. Laboratory.	(Oct. 6 to Dec. 15.) MINOR SURGERY AND BANDAGING. Special Room.	BACTERIOLOGY. Laboratory.	

## AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.				SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.				OBSTETRICS. Lower Room.	
7.30	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE Lower Room.	PATHOLOGY. Laboratory.	
8.30	PATHOLOGY. Laboratory.		PATHOLOGY. Laboratory.	(Jan. 5 to March 17.) DERMATOLOGY. Lower Room.	PATHOLOGY. Laboratory.	



**LECTURES.—FOURTH YEAR, 1898-'99.  
BEFORE CHRISTMAS.**

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.
5.30	SURGERY. Upper Room.		SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.		OBSTETRICS. Lower Room.	(Oct 6 to Dec. 1 MEDICAL JURISPRUDENCE. Upper Room.
7.30	(Oct. 2 to Dec. 5.) PEDIATRICS. Lower Room.	PRACTICE. Lower Room.		PRACTICE. Lower Room.
8.30	(Nov. 1 to Dec 20.) OTOLOGY AND LARYNGOLOGY. Lower Room.			

**AFTER CHRISTMAS.**

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.		CLINICAL LABORATORY INSTRUCTION.		SURGERY. Upper Room.	
6.30	OBSTETRICS. Upper Room.	(Jan. 3 to March 14.) MENTAL DISEASES. Upper Room.	(Jan. 4 to March 8 ) HYGIENE. Lower Room.	(Jan. 5 to March 9.) GYNECOLOGY. Upper Room.	OBSTETRICS. Lower Room.	(Jan. 7 to March 11.) NERVOUS DISEASES. Upper Room.
7.30	(Jan. 2 to March 20.) OTOLOGY AND LARYNGOLOGY. Lower Room.	PRACTICE. Lower Room.		PRACTICE. Lower Room.		PRACTICE. Lower Room.
8.30						(Jan. 7 to March 11.) ORTHOPEDIC SURGERY. Upper Room.

### University Lectures.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they may secure admission to such lectures, other than Law lectures, given in the University Hall, by applying to the Dean.

### Advantages of Washington for Medical Study.

LIBRARIES, ARMY MEDICAL MUSEUM, NATIONAL MUSEUM, ETC.

The location of the University at the seat of the National Capital affords several striking advantages to the medical student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office, all of which contain rare and costly works in every department of science and literature. The Army Medical Museum is also open for inspection daily from 9 to 3 o'clock. With its unrivalled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind, this Museum presents a field for study superior to any other institution of the kind, either in this country or Europe.

Students from a distance have the opportunity of spending a winter profitably at the Capital. As the Medical School lectures begin at 5.30 in the evening, ample time is afforded during the term for visiting the public buildings, works of art, and other places of interest to a stranger. Prominent among these may be mentioned the new National Museum, established in connection with the Smithsonian Institution. Here may be seen fully classified collections illustrating the arts and industries of the country, and, of special interest to the medical student, there is found in this Museum the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package in which they are imported or marketed to the delicate alkaloid constituting the active principle.

Of great interest also are the Government Botanical Gardens and the grounds of the Agricultural Department, where the student of Botany may find a rare collection of medicinal plants, from which are derived many of the preparations of the *Materia Medica*.

### Prizes.

At the end of the term a General Examination Prize of fifty dollars is awarded. It is given to the candidate for graduation who shall pass the best general examination.

The Faculty awards two additional prizes—one for proficiency in Clinical Medicine, and one for proficiency in Clinical Surgery.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology; Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology; Professor Sterling Ruffin gives one for the best examination in Medical Jurisprudence; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology, and Professor E. L. Tompkins gives one for the best examination in Nervous Diseases.

At the commencement, in May, 1897, the General Examination Prize was awarded to F. McG. Hartsock, of the District of Columbia; first honorable mention was made of Woodbury Pulsifer, of Maine; second honorable mention of J. H. Ford, of the District of Columbia, and third honorable mention of H. A. Dunn, of the District of Columbia.

The Faculty Prize in Clinical Medicine was awarded to J. H. Ford, of the District of Columbia.

The Faculty Prize in Clinical Surgery was awarded to J. H. Ford, of the District of Columbia.

The H. C. Yarrow Prize in Dermatology was awarded to P. W. Huntington; the H. L. E. Johnson Prize in Clinical Gynecology and the Sterling Ruffin Prize in Medical Jurisprudence were awarded to J. E. Jones, of Ohio.

The C. W. Richardson Prize in Laryngology and Otology was awarded to D. B. Street, of the District of Columbia.

The E. L. Tompkins Prize in Nervous Diseases was awarded to Woodbury Pulsifer, of Maine.

### Fees, Regulations, etc.

For the session of 1897-98 and thereafter the fee for each year (for new students) will be \$110. This covers all expenses, dissection and laboratories included, except breakage in the laboratories. Of this amount at least \$25 must be paid upon entrance and before beginning dissection.

A deposit is required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For special courses the following fees will be charged:

Matriculation Fee, payable only once.....	\$5 00
Single Tickets .....	25 00
Practical Anatomy, by the Demonstrator.....	10 00
Laboratory tickets, each, per year.....	10 00

Payment of the fees is required in all cases, and must be made at the commencement of the session, unless there are special arrangements with the Dean to suit the convenience of the student.

By virtue of a liberal endowment from the late Mr. W. W. Corcoran, this School is enabled to offer six free Scholarships.

Two of these Scholarships are open for competitive examination to the graduates of the several High Schools of the District of Columbia. These two Scholarships are awarded to the two students whose averages are highest.

Two of the Scholarships are open for competitive examination to graduates of any reputable High School or College (preference being given to those in the District of Columbia) who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two graduates whose averages are highest.

The remaining two of those Scholarships are open for competitive examination to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two students whose averages are highest.

In addition to the above-mentioned six Corcoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which shall be given to those applicants judged by the President of the University best qualified to enter the study of medicine for the purpose of becoming medical missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States of America.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

The School Building is situated opposite a Government reservation, at No. 1325 H Street N. W., the University Hospital at 1335 H Street N. W., within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

DR. E. A. DE SCHWEINITZ, *Dean*,  
1325 H Street N. W.

## STUDENTS IN MEDICINE.

### First Year Students.

Name and Address.	State.
Adamson, J. H., Alexandria, Va.,	Virginia.
Bennett, A. B., 1361 Thirtieth Street,	District of Columbia.
Bone, B. F., Washington Barracks,	Ohio.
Byram, Frank, 622 E Street S. W.,	District of Columbia.
Clark, A. M., Howard University,	District of Columbia.
Carswell, F. L., 1334 Eleventh Street,	Georgia.
Cathcart, E. A., 302 H Street N. W.,	Illinois.
Coe, W. B., 900 French Street,	Connecticut.
Collins, H. F., 125 Tenth Street N. E.,	District of Columbia.
Costello, M. E., Hyattsville, Md.,	New York.
Cranston, Arthur, 1302 R. I. Avenue,	District of Columbia.
Davis, W. T., 1005 Eighth Street N. W.,	Kentucky.
Dienelt, W. E., Alexandria, Va.,	Virginia.
Eastman, W. R., Falls Church, Va.,	Virginia.
Emery, J. A., Department of Agriculture,	Maryland.
Foster, C. L., 804 I Street N. W.,	Mississippi.
Freeman, P. L., 516 Eleventh Street S. E.,	Maryland.
Gilbert, A. L., 731 Sixth Street N. W.,	Virginia.
Glazebrook, F. H., 2022 P Street N. W.,	New Jersey.
Goode, J. E., 806 Eleventh Street N. W.,	North Carolina.
Grasty, T. S. D., 625 Q Street N. W.,	Virginia.
Grosvenor, F. L., 1210 G Street N. W.,	Ohio.
Haugaard, Victor, 1224 Fourteenth St. N. W.,	District of Columbia.
Hayes, M. W., 2133 F Street N. W.,	North Carolina.
Harlan, Thomas, 14 Sixth Street N. E.,	Maryland.

Name and Address.	State.
Hopkinson, George,	Vermont.
Kittredge, H. E., Navy Department,	Vermont.
Kirkendall, H. J., 2618 K Street N. W.,	Pennsylvania.
Knowlton, J. W., 1335 N Street N. W.,	Massachusetts.
Lalst, T. F., 720 Seventeenth Street N. W.,	Ohio.
Lawton, E. M., 1143 Twenty-fourth St. N. W.,	District of Columbia.
Lewis, G. E., 1327 Whitney Avenue,	Massachusetts.
Love, S. W. E., 334 Pennsylvania Ave. S. E.,	Maryland.
Lusby, J. R., 920 S. C. Avenue S. E.,	District of Columbia.
March, H. A., 724 Thirteenth Street N. W.,	Ohio.
Marshall, J. W., Treasury Department,	Wisconsin.
Mattingly, G. D., 708 N. C. Avenue,	Maryland.
Morriss, S. J., 1615 First Street N. E.,	Ohio.
Moore, E. B., The Concord,	District of Columbia.
Murray, Alex., Alexandria, Va.,	Virginia.
O'Dea, P. H., 69 K Street N. E.,	Pennsylvania.
Owens, W. D., 1203 N. H. Avenue,	District of Columbia.
Perkins, W. R., 627 Pennsylvania Avenue,	Maryland.
Pollard, W. T., Alexandria, Va.,	Virginia.
Powell, J. H., 131 E Street N. W.,	North Carolina.
Pulliam, J. M., 938 F Street N. W.,	Virginia.
Pyles, W. S., 224 Eleventh Street S. E.,	District of Columbia.
Quinn, W. A., 621 Massachusetts Ave. N. E.,	District of Columbia.
Riley, B. P., Oakdale, Md.,	Maryland.
Rucker, H. C., 214 E Street N. W.,	Virginia.
Ruffin, G. M., 1023 Vermont Avenue,	North Carolina.
Stetson, Thomas, 1224 Twelfth Street N. W.,	District of Columbia.
Tobias, H. W., 407 E. Capitol Street,	Pennsylvania.
Williams, J. H., 1520 Corcoran Street,	Georgia.

### Second Year Students.

Name and Address.	State.
Atkinson, John F., 431 Tenth Street,	Indiana.
Atkins, L. S., 930 I Street N. W.,	North Carolina.
Atherton, B. F., 1641 Tenth Street,	Georgia.
Barron, N. I., 1116 G Street,	Alabama.
Barnes, G. S., 1517 I Street N. W.,	South Carolina.
Beard, W. H., 1305 N Street N. W.,	District of Columbia.
Beale, R. S., 7 Cook Place,	District of Columbia.
Beall, C. M., New Jersey Ave. and C St. S. E.,	District of Columbia.

Name and Address.	State.
Birtwell, D. F., 412 A Street S. E.,	Pennsylvania.
Bradshaw, G. M. B., War Department,	Pennsylvania.
Brown, H. L., 230 N. Capitol Street,	District of Columbia.
Brown, O. G., 34 B Street N. E.,	District of Columbia.
Brown, T. J. W., 928 New York Ave. N. W.,	Pennsylvania.
Bradshaw, G. M. B., War Department,	Pennsylvania.
Breaden, Richard, 222 G Street,	Wisconsin.
Clark, C. P., 626 I Street,	Mississippi.
Clark, E. A., D. D. S., 600 Thirteenth Street,	District of Columbia.
Clark, W. S., 1114 Eleventh Street,	New York.
Copeland, E. P., 507 C Street S. E.,	District of Columbia.
Cuthbertson, C. W., 731 Fifth Street N. W.,	North Carolina.
Cummings, A. J., Chevy Chase,	Maryland.
Dalley, W. F., 720 Tenth Street,	Maryland.
Dixon, T. B., 1421 Twenty-ninth Street,	Maryland.
Ford, R. H., 2224 Thirteenth Street,	District of Columbia.
Greene, H. S., 320 Q Street N. W.,	Vermont.
Greenstreet, A. G., The Genoa,	District of Columbia.
Griffith, W. E., 310 A Street N. E.,	Pennsylvania.
Hales, R. A., 1325 Twelfth Street,	North Carolina.
Heath, F. C., 720 Tenth Street,	Maryland.
Herbert, N. N., 311 Seventh Street,	District of Columbia.
Hoadley, A. M., 345 Pennsylvania Ave. N. W.,	Virginia.
Holmes, G. D., 1420 New York Avenue,	District of Columbia.
Hunting, E. R., 122 Sixth Street S. E.,	New York.
Jobson, George, D. V. S., 1311 Fourteenth St.,	Pennsylvania.
Johnston, F. T., 1307 F Street N. E.,	Michigan.
Johnson, E. H., 333 C Street N. W.,	District of Columbia.
Jones, E. E., 1940 Ninth Street,	District of Columbia.
Kemp, T. J., 808 Twelfth Street N. W.,	Nebraska.
Kleiner, Randolph, Hyattsville, Md.,	Maryland.
Leach, W. V., 812 S Street N. W.,	Maryland.
Leatherman, Roy,	District of Columbia.
Macatee, H. C., 3 Thomas Circle,	Virginia.
Main, R. B., 2009 Massachusetts Avenue,	Massachusetts.
Mason, S. M., 1706 F Street N. W.,	Virginia.
Manning, H. M., 637 Maryland Ave. N. E.,	District of Columbia.
McMichael, S. J., 2110 K Street N. W.,	South Carolina.
Mitchell, J. E., 805 D Street S. W.,	Maryland.
Murdock, L. H., 1210 S Street N. W.,	Nebraska.

Name and Address.	State.
Mullally, J. F., 2153 D Street,	Rhode Island.
Moulden, W. R., 1305 Rhode Island Avenue,	District of Columbia.
Price, H. M., 1426 Seventh Street,	District of Columbia.
Protzman, A. A., 1328 G Street N. E.,	West Virginia.
Prentiss, E. C., 1218 Ninth Street,	District of Columbia.
Ragan, C. A., 246 Eighth Street N. E.,	Tennessee.
Riggles, J. L., 445 O Street N. W.,	District of Columbia.
Reed, D. H., 1331 Eleventh Street N. W.,	North Carolina.
Reiss, H., Garfield Hospital,	Illinois.
Robinson, G. M., 1313 K Street N. W.,	Pennsylvania.
Runyan, E. G., Department of Agriculture,	Michigan.
Smith, C. T., 8 Grant Place N. W.,	Virginia.
Simmons, M. J., 155 E Street S. E.,	Maryland.
Stacks, M. E., 1515 Vermont Avenue,	Connecticut.
Stearns, R. W., 1756 Madison Street,	District of Columbia.
Stewart, J. W., 916 I Street,	North Carolina.
Tucker, E. S., 431 Tenth Street N. W.,	Pennsylvania.
Walker, A. C., 202 Eighth Street S. E.,	Virginia.
Webb, U. R., 608 E Street N. W.,	Tennessee.
Westlake, A. J., 913 New Jersey Avenue,	Maryland.
Williams, J. M., Alexandria, Va.,	Virginia.

### Third Year Students.

Name and Address.	State.
Allen, J. H., 94 New York Avenue N. W.,	Tennessee.
Andrews, W. F., 1213 K Street N. W.,	Michigan.
Blackburn, S. A., Kensington, Maryland,	Kentucky.
Baker, O., 609 E Street N. W.,	New Jersey.
Butz, A. D., Washington Asylum Hospital,	Pennsylvania.
Butler, A. R., Civil Service Commission,	Oregon.
Cannon, J. S., 924 Fourteenth Street N. W.,	England.
Cook, A. F., 912 I Street N. W.,	Virginia.
Clark, J. W., 908 Fifteenth Street N. W.,	District of Columbia.
Cox, P. M., 1300 Pennsylvania Avenue N. W.,	Maryland.
Fadeley, F. F., 2033 N Street N. W.,	Virginia.
Gibson, F. E., 927 I Street N. W.,	District of Columbia.
Grubbs, R. B., 1460 Corcoran Street N. W.,	Alabama.
Gunion, J. P., 927 O Street N. W.,	District of Columbia.
Key, Sothoron, 1723 Ninth Street N. W.,	Maryland.
Hoades, H. K., 38 I Street N. W.,	New York.



Name and Address.	State.
Leith, A. T., 513 Thirteenth Street N. W.,	Wisconsin.
Mason, O. J., 1203 Thirteenth Street N. W.,	New York.
May, H. A., 829 Ninth Street N. W.,	New York.
McKee, W. P., 809 Twenty-second St. N. W.,	District of Columbia.
Morgan, R. L., 1912 Sunderland Place N. W.,	Pennsylvania.
Medley, W. W., 145 E Street S. W.,	Virginia.
Musgrave, W. E., Washington Barracks,	Tennessee.
North, H. N., St. Elizabeth,	District of Columbia.
Porter, H. F., 8035 O Street N. W.,	New York.
Perkins, Joseph, 1213 New York Ave. N. W.,	Illinois.
Prentiss, D. W., 1218 Ninth Street N. W.,	District of Columbia.
Riley, P. O., 2010 Portner Place N. W.,	Maryland.
Reichelderfer, L. H., 1205 Q Street N. W.,	Ohio.
Sheridan, C. J., 102 Twenty-second St. N. W.,	New York.
Smith, W. T., 1404 L Street N. W.,	Georgia.
Stromberger, H. H., 118 Seventh Street S. E.,	District of Columbia.
Sykes, J. T., 1409 New York Avenue,	England.
Taylor, A. A., 915 I Street N. W.,	Ohio.
Tiefenthaler, B. F., 516 Tenth Street,	Ohio.
Tappan, J. C., 507 B Street S. E.,	District of Columbia.
Ward, W. K., 1756 Pennsylvania Ave. N. W.,	District of Columbia.
Williams, W. C., Fourth and N Streets N. W.,	Virginia.

#### Fourth Year Students.

Name and Address.	State.
Baier, G. K., 1002 Pennsylvania Ave. N. W.,	District of Columbia.
Blye, B. F., Jr., 115 Seventh Street N. E.,	New York.
Cook, E., 712 Fourth Street S. E.,	District of Columbia.
Church, C. B., M. D., 921 I Street N. W.,	District of Columbia.
Chapman, T. P., Civil Service Commission,	Texas.
Clemons, C. A., 1443 Corcoran Street N. W.,	New York.
Dowling, Thomas, Jr., 614 E Street N. W.,	District of Columbia.
Fisher, W. N., 1212 Ninth Street N. W.,	Virginia.
Gallinger, W. H., Elsmere,	New Hampshire.
Gotta, R. C., 818 New Jersey Avenue N. W.,	Pennsylvania.
Gotwald, L. M., 309 Eleventh Street S. W.,	Tennessee.
Groover, T. A., 1404 L Street N. W.,	Georgia.
Grier, W. W., 1223 K Street N. W.,	District of Columbia.
Graham, H. H., 305 H Street N. W.,	Ohio.

Name and Address.	State.
Gunckel, P. L., 231 Tenth Street N. E.,	Kansas.
Howard, C. N., 928 T Street N. W.,	Pennsylvania.
Herald, A. B., 1224 I Street N. W.,	Armenia.
Hester, F. D., 1419 Second Street,	Virginia.
Huntington, P. W., 1601 Thirtieth St. N. W.,	Connecticut.
Keyser, C. S., 2019 Massachusetts Ave. N. W.,	District of Columbia.
Larrick, B. F., M. D., 909 I Street N. W.,	Illinois.
Lockwood, J. St. J., First and B Streets S. W.,	District of Columbia.
McDoneld, P. E., Post Office Department,	Georgia.
McKeldin, R. A. W., 1242 Maryland Ave.,	Maryland.
Matthews, W. W.,	Louisiana.
McIntee, M. J., 1233 New Jersey Ave. N. W.,	Massachusetts.
Morhart, F. H., 228 Morgan Street N. W.,	Ohio.
Perry, C. R., 2020 G Street N. W.,	Virginia.
Rives, W., Box 194, City,	Maryland.
Rittenour, A. A., Alexandria,	Virginia.
Schwinn, G. H., Children's Hospital,	Connecticut.
Smith, H. W., 1515 Vermont Avenue N. W.,	Pennsylvania.
Snoddy, T. B., 1217 N Street N. W.,	Tennessee.
Sorrell, G. L., 620 F Street N. W.,	Virginia.
Sims, W. E., 628 Seventh Street N. E.,	South Carolina.
Selhausen, H. A., 510 D Street S. E.,	District of Columbia.
Tracey, J. M., 465 I Street N. W.,	New York.
Whitson, W. E., Washington Asylum Hospital,	Maryland.
Wells, D. A., 2 I Street,	New Hampshire.
White, C. S., 1105 E Street S. W.,	District of Columbia.
Worstell, G., 436½ H Street N. W.,	Texas.
Wyeth, L. J., 2022 R Street N. W.,	Illinois.
Yarborough, R. F., 1300 Penn. Ave. N. W.,	Texas.

### Special Students.

Chavannes, E., 620 I Street,	Tennessee.
Delavel, L., 1500 Twentieth Street N. W.,	France.
Hamilton, J. R., M. D.,	District of Columbia.
Nowlin, H. E., M. D., 1312 Twelfth Street,	Georgia.
Nye, Francis, 936 O Street,	District of Columbia.
Stitt, E. R., M. D., Navy Department,	South Carolina.

Total. ....210

# THE DENTAL SCHOOL.

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## **The Faculty.**

**BENAIAH L. WHITMAN, D. D.,**  
President.

**J. HALL LEWIS, D. D. S.,**  
Dean, and Professor of Dental Prosthetics.

**HENRY C. THOMPSON, D. D. S.,**  
Professor of Operative Dentistry.

**D. WEBSTER PRENTISS, M. D.,**  
Professor of Materia Medica and Therapeutics.

**D. KERFOOT SHUTE, M. D.,**  
Professor of Anatomy.

**EMIL A. DE SCHWEINITZ, M. D.,**  
Professor of Chemistry.

**WILLIAM P. CARR, M. D.,**  
Professor of Physiology.

**JONATHAN R. HAGAN, D. D. S.,**  
Professor of Oral Surgery.

**STERLING RUFFIN, M. D.,**  
Demonstrator of Anatomy.

**VERANUS A. MOORE, M. D.,**  
Professor of Normal Histology.

**WALTER REED, M. D.,**  
Professor of Pathology and Bacteriology.

JONATHAN R. HAGAN, D. D. S.,  
WILLIAM H. TRAIL, D. D. S.,  
Demonstrators in Charge of Infirmary.

WILLIAM L. CLARK, D. D. S.,  
WALTER A. LOW, D. D. S.,  
CHARLES R. RICE, D. D. S.,  
R. E. L. HACKNEY, D. D. S.,  
Assistant Demonstrators.

### **Annual Announcement of the Session of 1898-'99.**

The Regular Course of Lectures begins on October 3, and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. Hall Lewis, on the above date, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The course of instruction in the Dental School extends over three years, and is arranged as follows:

**First Year.**—Anatomy, Physiology, Chemistry and Materia Medica, together with Practical Anatomy, Histology, Bacteriology, and such Infirmary work as is suitable for first-year students.

**Second Year.**—The subjects of the first year are continued, and to these are added Operative Dentistry and Prosthetic Dentistry, with more advanced Infirmary work.

**Third Year.**—This year is devoted exclusively to Operative and Prosthetic Dentistry and Oral Surgery. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located School building gives ample opportunities.

The operating room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anaesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the Infirmary, which is under the immediate supervision of Professor Lewis. Dr. Hagan, the Demonstrator in charge, is in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of his many years of experience in Dental Practice.

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of twenty-seven months actual practice in the Infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

## **GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.**

### **Prosthetic Dentistry and Metallurgy.**

#### **PROFESSOR LEWIS.**

In this department the principles involved in the construction of artificial substitutes are exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum is thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., are carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist receive special attention.

The professor endeavors to make his instruction thoroughly practical, and to prepare the student for the actual every-day practice of Prosthetic Dentistry.

### **Operative Dentistry, Dental Anatomy, and Pathology.**

**PROFESSOR THOMPSON.**

This course embraces lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by gentlemen whose reputations are fully established as proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

### **Chemistry.**

**PROFESSOR DE SCHWEINITZ.**

The instruction in this Department embraces—

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry is studied with special attention to those organic compounds that are of practical use.

Laboratory instruction is given in the determination of acids and bases, analyses of alloys, etc.

### **Physiology.**

**PROFESSOR CARR.**

Every effort is made to teach this subject in a scientific manner.

The ground is fully covered by a two years' course of lectures, and these lectures so illustrated by modern diagrams, models, and ex-

periments as to make them clear in every detail. Emphasis is given to those truths that have a known practical value.

### **Materia Medica and Therapeutics.**

#### **PROFESSOR PRENTISS.**

In this course of instruction especial prominence is given to the physiological action of medicines and their therapeutic uses.

The professor endeavors to make his instruction as practical as possible. The Lectures are supplemented by working prescriptions and blackboard illustrations, as occasion will admit. The student is taught also the use of the Metric System in Medicine.

In the Pharmaceutical Laboratory the students are taught the methods of making different preparations, such as infusions, decoctions, tinctures, syrups, and the like. They are also taught the compounding of prescriptions, the proper excipients for pills, incompatibles (especially such as produce dangerous compounds), and are expected actually to compound working formulae.

### **Anatomy.**

#### **PROFESSOR SHUTE.**

This course of lectures is arranged with the view to rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon also is constantly employed to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

### **Practical Anatomy.**

The dissecting-room is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge to the student. The room is open during the day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

### **Oral Surgery.**

#### **PROFESSOR HAGAN.**

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

### **Histology.**

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

### **Bacteriology.**

This course embraces a comprehensive study of the bacteria of the mouth, which have relation to the diseases of that region.

### **Requirements for Matriculation and for Graduation.**

#### **I.**

Candidates for admission must show, either by examination or by the exhibit of a diploma or a certificate from some reputable institu-



tion of learning, that they have received a good English education. according to the requirements of the National Association of Dental Faculties.

Dr. O. A. M. McKimmie, of The Columbian University, will conduct the entrance examination, when such is required, at 1333 N Street N. W.

## II.

Candidates for Graduation must have attended three full courses of lectures, each of seven months' duration, and three courses of Clinical Instruction in this institution, during the regular winter term and in separate years, with the exceptions noted below.

The following is considered as equivalent to one course in this School:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Before becoming eligible for graduation, all medical graduates and students must take two full courses upon Operative and Prosthetic Dentistry, and conform to the usual Infirmary requirements.

Graduates from schools of pharmacy may enter the Junior Class after passing a satisfactory examination in the first-year studies.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be reexamined in the fall.

Students can go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student can present himself for examination.

Students must enter before or ten (10) days after the opening lecture of the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which

amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the School Museum a well constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry and diligent attendance, will be taken into consideration. Notable negligence, immorality, and habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the School sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

### **Faculty Prize.**

A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record. At the last commencement the prize was awarded to Damon A. Binkert, of Illinois.

### **Advantages of Washington to the Dental Student.**

The location of the University at the seat of the National Capital affords several striking advantages to the dental student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office—all of which contain rare and costly works in every department of science and literature.

The Library of Congress contains copies of all the important dental works ever published, and the student has free access to these, for study or reference, on any week day from 9 to 4 o'clock.

The Army Medical Museum, situated on B street, corner Seventh Street S. W., is also open for daily inspection, with its unrivalled collection of pathological specimens illustrating the result of diseases in every form. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs.

Apart from these considerations, students from a distance have the opportunity of spending the winter profitably at the seat of the National Government during the session of Congress. The School lectures beginning at 5.30 in the evening, afford during the term ample time for visiting the public buildings, works of art, and other places of interest.

Of special interest to the medical and dental student, may be mentioned the National Museum, established in connection with the Smithsonian Institution. In this Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Of great interest, also, are the Government Botanical Gardens and the Grounds of the Agricultural Department, where the student of Botany may find a rare collection of medical plants, from which are derived many of the preparations of the *Materia Medica*.

At the United States Patent Office models of every conceivable form of dental instruments may be daily inspected, thus affording to the student an invaluable opportunity for studying the mechanical contrivances used in dental practice.

### University Lectures.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than Law Lectures, given in the University Hall, by applying to the Dean.

### Students of Dentistry.

Students will be classified and the absentees marked in the Special Dental Catalogue.

**Fees, etc.**

**Annual tuition fee ..... \$100 00**

The above includes all the tuition expenses. There are no extras whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutic, and Chemical Laboratories and Dental Infirmary are all furnished to the students free of charge.

Each student must furnish his own Books and Dental Instruments.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he can avail himself of Laboratory and Infirmary instruction.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second Dental Course, provided that, one month before the spring examinations, they give to the Dean written notice of their intention, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities of the Union.

The Dean may be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 p. m., and also at the School Building, 1325 H Street N. W., on Monday, Wednesday, and Friday of each week from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

Students requiring further information are requested to communicate with the Dean of the Faculty.

**J. HALL LEWIS, Dean,**  
1023 Vermont Avenue N. W., Washington, D. C.

## STUDENTS OF DENTISTRY.

Name and Address.	State.
Agnew, C. M., 828 Twelfth Street N. W.,	Pennsylvania.
Aler, S. E., 611 M Street N. W.,	West Virginia.
Ash, H. P., 1825 Thirteenth Street N. W.,	Pennsylvania.
Barr, W. C., 310 East Capitol,	Illinois.
Bennett, Arthur, 933 H Street N. W.,	Georgia.
Berry, V. P., 1242 Twelfth Street,	Virginia.
Bogley, E. H., 1507 Twenty-eighth Street,	Maryland.
Boynton, C. W., 913 First Street N. W.,	New York.
Bradford, F., 1209 Tenth Street,	Virginia.
Brengele, P. E., 450 P Street N. W.,	Maryland.
Bridger, J. D., The Fredonia,	Mississippi.
Carr, C. M., 638 E. Capitol,	Iowa.
Colvin, E. M., 2530 I Street N. W.,	Virginia.
Crabbe, W. G., 9 Fourth Street N. E.,	Utah.
Cuevas, Enrique, 1403 L Street N. W.,	Chile.
Cuthbertson, C. W., 731 Fifth Street,	North Carolina.
Dahlen, P. J., 927 I Street N. W.,	California.
Dunne, J. C., 929 K Street,	New York.
Eggleston, J. D., 2716 Fourteenth Street,	New Jersey.
Fisher, W. C., 3250 O Street,	District of Columbia.
Fred, Thos W., 721 Eighth Street,	Virginia.
Gardner, B. A., 7 Fourth Street N. E.,	New York.
Gates, T. J., 114 Sixth Street S. E.,	Maryland.
Gibson, Hopkins, 906 I Street N. W.,	West Virginia.
Golman, J. A., 223 Ninth Street N. E.,	District of Columbia.
Greene, E. W., 209 Thirteenth Street S. W.,	Maine.
Grubbs, R. B., 1460 Corcoran Street,	Alabama.
Hicks, F. F., 1312 Ninth Street,	Maryland.
Hoofnagle, W. B., 1003 E. Capitol,	Maryland.
Holcombe, P. D., Corcoran Art Gallery,	Mississippi.
Holmes, C. E.,	Iowa.
Hughes, C. A., 616 Massachusetts Avenue,	Tennessee.
Johnson, H. W., 2011 S Street N. W.,	District of Columbia.
Kemball, W. M., 213 Elm Street N. W.,	District of Columbia.
Keefer, C. B., 316 Second Street S. E.,	District of Columbia.
Kauschke, J. W., 532 Twentieth Street,	Germany.

Name and Address.	State.
McClenahan, J. T., 15 Grant Place,	North Carolina.
McChesney, J. R., Chillum, Md.,	Maryland.
McIntee, A. J., 921 I Street N. W.,	Massachusetts.
McNeill, J. H., 1242 Maryland Avenue,	New York.
Moore, J. P., 1427 S Street,	Illinois.
Naff, W. E., 1042 O Street,	Tennessee.
Otterback, M., 515 C Street S. E.,	District of Columbia.
Pairo, W. E., 1953 Third Street,	Virginia.
Perlie, H. E., 924 Fourteenth Street,	Massachusetts.
Pool, S. D., 1102 Eighth Street,	Louisiana.
Putnam, C. A., 205 Thirteenth Street S. W.,	Maine.
Putnam, H. M., 714 Fifth Street N. E.,	Ohio.
Rawlings, J. W., 1136 Sixth Street,	South Carolina.
Rawson, W. A., 132 A Street N. E.,	Michigan.
Rice, T. M., 418 A Street S. E.,	Pennsylvania.
Shade, E. C., 1232 Fourteenth Street,	District of Columbia.
Smith, Ernest, 225 F Street N. E.,	District of Columbia.
Sykes, J. T., 1409 New York Avenue,	England.
Thompson, Pearce, Pension Office,	Kentucky.
Utz, A. T., 450 P Street,	Maryland.
Van Deusen, O., 415 A Street S. E.,	Virginia.
Van Vorhis, H. M.,	Pennsylvania.
Van Zandt, C. A., 928 New York Avenue,	Ohio.
Vest, W. E., 1510 R Street,	North Carolina.
Watts, W., 402 M Street N. W.,	Maryland.
Wallace, J. K., 613 Pennsylvania Ave. S. E.,	Ohio.
Welch, Frank, 22 K Street N. W.,	Delaware.
Whittaker, H. W., 613 Penn. Ave. S. E.,	Ohio.
Wolven, F. H., 724 Twelfth Street,	New Jersey.
Woodford, W. C.,	District of Columbia.
Whitson, J. E., 1527 Meridian Avenue,	District of Columbia.
Yates, J. R., 1300 Pennsylvania Avenue,	Virginia.
Young, J. M., 1765 Second Street N. W.,	Virginia.
Young, Howard, 1210 Ninth Street,	Nova Scotia.

Total ..... 70

# THE POST-GRADUATE VETERINARY SCHOOL.

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## Faculty.

**BENAIAH L. WHITMAN, D. D.,**  
President.

**D. E. SALMON, D. V. M., A. R. C. V. S. (Honorary),**  
Dean and Professor of Sanitary Medicine, Control and Eradication of Contagious Diseases and Inspection of Meats.

**JOHN LOCKWOOD, D. V. S.,**  
Professor of Theory and Practice of Medicine and Surgery.

**WM. P. CARR, M. D.,**  
Professor of General Physiology.

**E. A. DE SCHWEINITZ, A. M., PH. D., M. D.,**  
Professor of Chemistry.

**V. A. NORGAARD, D. V. S.,**  
Professor of General Pathology.

**CHARLES F. DAWSON, M. D., D. V. S.,**  
Professor of Advanced Physiology.

**A. M. FARRINGTON, B. Sc., B. V. S.,**  
Professor of Obstetrics and Zoötechnics.

**D. E. BUCKINGHAM, V. M. D.,**  
Professor of Advanced Materia Medica and Therapeutics.

**CH. WARDELL STILES, A. M., PH. D., M. S. (Honorary),**  
Professor of Zoölogy and Bibliography.

**JAMES CARROLL, M. D.,**  
Professor of Pathology and Bacteriology.

**CECIL FRENCH, D. V. S.,**  
Professor of Canine Pathology.

**ALBERT HASSALL, M. R. C. V. S.,**  
Professor of Parasitology.

**W. S. WASHBURN, M. D.,**  
Professor of Histology.

**GEORGE JOBSON, D. V. S.,**  
Professor of Anatomy.

**DAVID McMASTER, V. S., M. D.,**  
Professor of Exterior of the Nose.

**CHARLES F. HADFIELD, D. V. S.,**  
Demonstrator of Anatomy.

## INTRODUCTION

In presenting the Sixth Annual Announcement of the National Veterinary College we were able to state that a most important change in the organization and direction of the College had just been accomplished. Now we can make the announcement that The National Veterinary College will hereafter be known as The Post-Graduate Veterinary School of The Columbian University. The students will have all the advantages and facilities for studying histology, pathology, and chemistry which are found in the laboratories of the Medical School of this University. The Faculty has been greatly strengthened by uniting several courses of instruction with similar courses in the Medical School and by securing the services of eminent veterinarians for other important chairs.

The founders of this School have always been of the opinion that there should be an institution in Washington for the study of veterinary science, with broader foundations and more complete facilities



than could be provided in any private school. The union now accomplished by The Columbian University raises this school to the desired plane, and places within its grasp all the advantages possessed by the great endowed institutions of the country.

There could be no more appropriate location for a post-graduate veterinary college than the capital of this great stock-growing country.

Washington city has for many years, and more particularly during the last decade, attracted the attention of intelligent people as a place with peculiar educational advantages, especially for students in the higher institutions of learning. Such institutions are already numerous, and there is now offered here instruction of the highest grade.

The location of Washington is central and easily accessible from the North and the South, the East and the West. This city, the seat of the National Government, is the gathering place not only for statesmen and jurists, but for the representatives of the intelligence and wealth of the country. It is also the favorite place of meeting for scientific associations and international congresses of all kinds. It is the one cosmopolitan city of the country where the student from any section is certain to feel at home and to find congenial friends.

Here are found the great Congressional Library, which has no equal in the country; the library of the Surgeon General's Office, which as a medical library is unsurpassed; the library of the Department of Agriculture and of the Bureau of Animal Industry, in which can be found a vast collection of works on veterinary medicine and hygiene, bacteriology, and the record books of all the important breeds of animals. The veterinary student will also find here the laboratory and experiment station of the Bureau of Animal Industry, where the highest class of investigations of animal diseases is conducted. These are model institutions, unequalled for their purpose in this country, and unsurpassed in the world.

Of great interest and value to every student are the National Museum, the Army Medical Museum, the Museum of Hygiene, U. S. N., the Botanical Gardens, the herbarium, green-houses, gardens and grounds, and the new and very instructive museum of the Department of Agriculture. In these the students have unrivalled advantages for the study of Anatomy, Materia Medica, Biology,

Sanitary Appliances, Botany, etc. These are all free and are open to students every week day from 9 a. m. to 4 p. m.

The faculty is made up of well-known veterinarians and experienced lecturers, who are recognized as authorities on the subjects which they teach. The courses have been arranged to suit the requirements of modern veterinary education. The lectures on the control and eradication of contagious diseases and on meat inspection are a special feature, designed to fit the students for the many responsible and lucrative positions which have been opened to competent men by recent State and National legislation.

Chief among the positions under the Federal Government are those of Inspectors and Assistant Inspectors in the Bureau of Animal Industry. These positions are now filled only by persons who are veterinary graduates, and who pass the examination of the Civil Service Commission.

The vast amount of capital invested in our animals in the various States, and the widespread existence of tuberculosis and other diseases in them, and the relation which these bear to the health and wealth of the country, make it more and more necessary that there be a class of persons thoroughly educated for the duty of coping with these conditions. The advanced veterinary graduate is the logical candidate for such positions, and we now have many State veterinarians, as well as veterinarians to the State boards of health, while in nearly all the agricultural colleges and in most of the municipal governments veterinarians occupy important positions.

### POST-GRADUATE SCHOOL.

There is at present a tendency to establish institutions of learning at the National Capital which shall be given up entirely to post-graduate work. Two universities in the District of Columbia have already announced their policy of not accepting under-graduate students, and the Veterinary School of The Columbian University has been repeatedly urged by prominent veterinarians of the country to take the same step. The reasons advanced for such a change are that the Faculty of this School is composed largely of men engaged in original investigations in comparative medicine, and hence especially fitted to

direct advanced work, and that the medical libraries of Washington are of special advantage to post-graduate students.

Pursuant to these repeated suggestions The Columbian University has decided to change its Veterinary School to a Post-Graduate School.

Hereafter students not possessing a degree in veterinary medicine will be accepted only as special students, and then only in case they can convince the Faculty that they have had preliminary training which will enable them to follow the work of the class without detriment to other students. Such special students will be given a certificate of attendance or of examination in special branches, but will not be graduated by this University until they have first obtained a degree at some other Veterinary College of recognized standing.

### Post-graduate Work.

**Thesis Work.** During the first month of the term, each post-graduate who is a candidate for an advanced degree, will be required to choose a major branch for examination at the end of the year; he will also submit for the approval of the Faculty a subject in this branch for a thesis; he will be expected to study the entire available literature on the subject selected, supplementing his bibliographic work by original observations and investigations. From the data thus gained he must prepare and submit a thesis to the Faculty before he is permitted to enter any examination for a degree.

It is expected that fully one-third of the entire time of every post-graduate student will be given up to thesis work.

**Lectures.** All courses are optional, but no post-graduate will be admitted to examination for a degree who does not elect at least ten hours of lectures per week, covering one major and two minor subjects. The following courses are open to post-graduates during the session of 1898-99.

### **COURSES.**

#### **Sanitary Medicine, the Control and Eradication of Contagious Diseases, and Meat Inspection.**

**PROFESSOR D. E. SALMON, D. V. M., A. R. C. V. S. (Honorary).**

This subject is taught by lectures covering the whole field of infectious diseases, their history, nature, cause, diagnosis, and treatment. The results of recent investigations in this country and abroad are incorporated and particular attention given to available sanitary measures and the laws and regulations for their enforcement. The effect of animal diseases upon the public health and the means of protecting mankind from these plagues receive due consideration. The principles of meat inspection are developed in the final lectures of the course. Professor Salmon's experience in organizing and directing the work of the United States Government for the eradication of contagious diseases and for meat inspection enables him to present these subjects in a practical manner, which must be of great advantage to those who aspire to positions in national, State, or city government. The course is looked upon as one of the most important in our curriculum, and no efforts are spared to maintain it at the highest degree of efficiency.

#### **Theory and Practice of Medicine and Surgery.**

**PROFESSOR JOHN LOCKWOOD, D. V. S.**

The course in the practice of veterinary medicine and surgery consists of clinical lectures. At these the student is given every opportunity to learn all that each case may show. The methods of examination, differential diagnosis, and treatment are thoroughly taught. The use of anaesthetics, the practice of dental surgery, lameness, and male and female castration are especially dwelt upon.

#### **Physiological Chemistry.**

**PROFESSOR E. A. DE SCHWEINITZ, A. M., Ph. D., M. D.**

Physiological and biochemistry, including the preparation of tuberculin, mallein, antitoxines, and allied products will be taught.

(Open only to students who have had thorough courses in chemistry and bacteriology.)

### **General Physiology.**

**PROFESSOR WILLIAM P. CARR, M. D.**

Every effort is made to teach this subject in a thorough, scientific, and practical manner. The ground is fully covered by lectures illustrated by modern diagrams, models, and experiments to make them perfectly clear in every detail. Especial emphasis is given to those truths that have a practical value.

Physiological anatomy receives especial attention, and is illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anesthetized living animals when necessary for a thorough understanding of the subject. Physiological anatomy is also taught in the laboratory, and an opportunity is given students to do practical physiological work as far as their time will permit.

### **Advanced Veterinary Physiology.**

**PROFESSOR CHARLES F. DAWSON, M. D., D. V. S.**

This course will consist of about twenty-five lectures, upon the following subjects: The blood and its circulation, respiration, digestion, absorption, secretion and excretion, nutrition, heat production, the nervous system and the special senses.

When necessary, mechanical appliances and fresh and alcoholic specimens will be used to demonstrate the principles taught.

### **General Pathology.**

**PROFESSOR VICTOR A. NÖRGAARD, V. S.**

In this course special attention is given to the morbid anatomy and microscopic changes involved in inflammation, degeneration, hypertrophy, atrophy, and tumors. Methods for making autopsies and recording data are also considered. The instruction is given by

means of lectures, recitations, and demonstrations of both the gross and microscopic changes involved in the various disease processes.

### **Pathology and Bacteriology (Practical).**

**PROFESSOR JAMES CARROLL, M. D.**

In addition to the study of gross changes of appearance seen in ordinary diseases, special attention is given to the minute changes occurring in tissues in inflammation and inflammatory affections of the various organs, as well as to the cellular structure of the important tumors and new growths. To this end the microscope is freely used. An attempt is also made to impress upon the student the importance of a thorough and systematic autopsy in all cases, besides which he has practical illustrations of the most approved methods for preparing bacteriological slides and cultures from the blood and other tissues of animals after death.

### **Advanced Materia Medica and Therapeutics.**

**PROFESSOR D. E. BUCKINGHAM, V. M. D.**

An advanced course on the principles and practice of comparative therapeutics is given. The course also includes an exhibition of the drugs and a description of the agencies, not drugs, employed by the veterinarian. Practical instruction is given in all the methods used in the exhibition of medicines.

### **Obstetrics and Zootechnics.**

**PROFESSOR A. M. FARRINGTON, B. Sc., B. V. S.**

The course of instruction consists of lectures on obstetrical anatomy, foetal development, presentations, and the diseases incidental to the periods of gestation and parturition.

The lectures are illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

The professor also delivers a course of lectures on the breeds of horses, cattle, sheep, and swine, including their breeding, feeding, and management. This course also embraces precautions to be observed in importing animals, their purchase, shipment, and quarantine—subjects of great value to those engaged in the handling of pure-bred stock.

### **Canine Medicine and Surgery.**

**PROFESSOR CECIL FRENCH, D. V. S.**

The purpose of this course is to make students thoroughly acquainted with diseases of the dog and the modern methods of treatment. The course consists of about twenty-four lectures, and is conducted by Dr. French, whose practice is confined entirely to the treatment of the canine race.

Students have excellent opportunities for clinical observation on dogs of all breeds and ages under medical or surgical treatment at Dr. French's private modern canine infirmary.

### **Parasitology.**

**PROFESSOR ALBERT HASSALL, M. R. C. V. S.**

The instruction in this subject consists of lectures upon the various parasites with which the domesticated animals are infested. Thorough instruction is also given as to the prevention and eradication of parasites and the treatment of the diseases caused by them.

### **Histology.**

**PROFESSOR W. S. WASHBURN, M. D.**

Special attention is given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of the tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs

of animals. The histological laboratory is well equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject.

### **Comparative Anatomy.**

**GEORGE JOBSON, D. V. S.**

This important subject is taught by numerous lectures. The laboratory work in this department is under the immediate direction of the Professor of Anatomy, assisted by Dr. C. F. Hadfield, demonstrator.

### **Zoölogy.**

**PROFESSOR CH. WARDELL STILES, A. M., PH. D., M. S. (Honorary).**

The course in Zoölogy is designed (1) to give the student a general knowledge of the animal kingdom as a matter of general education and culture; (2) to serve as an introduction to Anatomy, Histology, Physiology, Obstetrics, and Breeding; (3) to aid the student in his study of Sanitary Medicine and Meat Inspection.

The following course is given:

General Zoölogy and the Animal Parasites of Man.—One hour per week, from October to May. This course includes a general introduction into the biological sciences and a discussion of several of the more important groups of animals. The lecturer also gives a general introduction to the subject of parasitology and a discussion of the protozoa, flukes, tapeworms, roundworms, arachnoides, and insects parasitic in the human subject. Particular attention is given to the species which are transmissible to man from the domesticated animals. The lectures are illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for this course, and by exhibition of specimens. The lectures are supplemented by practical laboratory exercise in microscopic examination of meat for trichinosis and of faeces for the eggs of intestinal parasites.

Special directions are given as to methods of bibliographical research.



### **Exterior of the Horse.**

**PROFESSOR DAVID McMASTER, V. S., M. D.**

A weekly lecture upon this subject is given. When necessary, stereopticon views and photographs of horses are used to teach the student to recognize the predominating features presented in type specimens of the various kinds of horses, and how to use the information thus gained in giving professional advice to clients, who, as a rule, wish to be informed, in advance, as to the probability of a particular animal being prone to lameness, viciousness, or whether suited for a particular kind of work.

Besides these courses, students may elect any of the regular courses given in the undergraduate department of human medicine in the University, such as Anatomy, Physiology, Histology, Chemistry, Bacteriology, Medical Jurisprudence, Hygiene, Obstetrics, Surgery, Practice, Clinics, etc.

### **Veterinary Seminary.**

Veterinary Seminary by various members of the Faculty. One hour.

The current veterinary journals will be reviewed and discussed and original papers will be read by members of the class.

### **Text-Books and Works of Reference.**

**Anatomy:** Strangeway, Chauveau, McFadyean.

**Physiology:** Mills' Comparative, F. Smith, Flint, Yeo.

**Materia Medica and Therapeutics:** Finlay Dun, Wood, Bartholow.

**Chemistry:** Simon, Atfield, Remsen's Organic, Gamgee's Physiological Chemistry.

**Surgery:** Lioutard.

**Practice:** Friedberger and Fröhner.

**Obstetrics:** Fleming.

**Canine Practice:** Müller (Glass' translation).

**Veterinary Dentistry:** Hinebauch, Clarke.

**Lameness and Shoeing:** Zundel, Fleming.

Dictionary: Dunglison, Keating, Gould.

Age of Domestic Animals: Huidekoper, Liautard.

Bacteriology: Abbott, Sternberg.

Zoölogy—Parasites: Neumann, by Fleming.

Meat Inspection: Walley, Stiles. The inspection of Meats for Animal Parasites.

Histology: Piersol, Schaefer.

Cattle Practice: Steel, Hill.

Exterior of the Horse: Goubaux & Barrier, Percival.

Pathology: Green, Delafield & Prudden.

### **Fees.**

The fee for the full course, including matriculation, lectures, examinations and diplomas, is one hundred dollars (\$100) per year. Where a student desires to take only one or two courses, the fees will be as follows:

Matriculation, \$5.00; examination fee (for each subject), \$5.00; certificate fee, \$5.00; lecture fee for each course taken, \$15.00.

### **Session of 1898'-99.**

Oct. 1. Examination and admission of students.

Oct. 3. Lectures begin.

Apr. 29. Lectures close.

### **Lecture Hours.**

The didactic lectures are given daily between the hours of 4.30 and 9.30 p. m.

The clinical lectures and demonstrations are given from 9 a. m. to 12 m.

### **Medical Association.**

This Association was organized in 1892. The membership is made up of members of the Faculty, graduates and students. The meetings of the Association take place weekly, and all students are re-

quired to attend, as it is considered a very important part of the instruction given in this School. Several members of the Faculty are habitual attendants, and by their presence encourage good work and at the same time correct any error into which the essayist or critics may fall.

### **Requirements for Graduation.**

Candidates for graduation must be of good moral character, correct in deportment, twenty-one years of age; they must have graduated at a veterinary college in good standing; attended full courses of lectures, and complied with other conditions specified above. They must have paid all fees, and have passed a satisfactory examination before the Faculty.

### **Laboratories.**

The union of this college with The Columbian University has opened to our students the well-equipped laboratories of Histology, Pathology, Bacteriology, and Chemistry in that institution. They are located in the building of the Medical School of the University, and veterinary students are given instruction in the above-named subjects in common with the medical students.

### **Museum Collection.**

In this collection are to be found models, dissections, skeletons, charts, and many pathological specimens. These will all be drawn upon for purposes of illustration.

### **General Information.**

The cost of living in Washington will, as elsewhere, vary with individual taste and requirements. Generally speaking, it is about the same as in other large cities. Rooms and board may be obtained in the immediate vicinity at from \$15 to \$25 per month. The School and Hospital buildings are located in proximity to five different

street-car lines, which run to all parts of the city and suburbs, making it possible for students to visit places of historic interest at a nominal cost.

For further information address—

DR. CHARLES F. DAWSON,  
*Secretary Veterinary School,*  
*The Columbian University, Washington, D. C.*

### STUDENTS IN VETERINARY SCHOOL, 1897-'98.

#### Freshmen.

Covert, J. R.,  
 Luther, W. H.,  
 Tallman, B. H.,

Nebraska.  
 Massachusetts.  
 Pennsylvania.

#### Juniors.

Almony, L. E.,  
 Berger, F. B.,  
 Horner, Glenn W.,  
 Mayer, H. N.,  
 Uber, C. E.,  
 Weinheimer, C. J.,  
 Young, Hulbert,

Maryland.  
 Maryland.  
 Maryland.  
 Pennsylvania.  
 Virginia.  
 District of Columbia.  
 District of Columbia.

#### Seniors.

Hadfield, R. H., D. V. S.,  
 Harper, B. S., D. V. S.,  
 Moore, E. L.,  
 Washburn, H. J.,

Rhode Island.  
 Iowa.  
 Canada.  
 Michigan.

Total.....14

#### Graduates, 1898.

Moore, E. L.,  
 Washburn, H. J.,

Canada.  
 Michigan.

# DEGREES CONFERRED IN 1897.

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## HONORARY.

### Doctor of Laws.

Name.	Residence.
Otis Tufton Mason, A. B., Columbian University, 1861. Ph. D., Columbian University, 1879.	District of Columbia.
Lester Frank Ward, A. B., Columbian University, 1869. LL. B., Columbian University, 1871. A. M., Columbian University, 1872.	District of Columbia.

### Doctor of Divinity.

William Duncan Rice, A. B., Columbian University, 1852. A. M., Columbian University, 1856.	South Carolina.
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### Master of Arts.

Sarah Maria Burnham,	Massachusetts.
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## UPON EXAMINATION.

### Doctor of Philosophy.

Charles Arthur Hollick, Ph. B., Columbia College, 1879.	New York.
John Scott Johnson, B. S., Columbian University, 1893. A. M., Columbian University, 1894.	Texas.
Timothy William Stanton, B. S., University of Colorado, 1883. M. S., University of Colorado, 1895.	Colorado.

**Master of Science.**

Name.	Residence.
Joseph William Fell, B. S., Trinity College, 1889.	New York.
Anne Lewis Pierce, B. S., Columbian University, 1893.	District of Columbia.
Frank Darius Simons, A. B., University of Indiana, 1895.	Indiana.
Thomas Alfred Witherspoon, U. S. Naval Academy, 1885.	Tennessee.

**Master of Arts.**

Mary Katharine Chapin, A. B., Columbian University, 1896.	District of Columbia.
Harry Hampton Donnally, B. S., Columbian University, 1896.	Virginia.
Nancy Jacobs McKnight, A. B., Wellesley College, 1887.	District of Columbia.
George Washington Peterson, B. A., University of Minnesota, 1893.	Minnesota.
George Edmund Traver Stevenson, B. A., Columbian University, 1897.	New York.
Hugh Thomas Stevenson, A. B., Columbian University, 1896.	Illinois.

**Doctor of Medicine.**

E. M. Chapman, 11 I Street N. W.,	Massachusetts.
J. Y. Curry, 1111 H Street N. W.,	Georgia.
G. S. Driver, 1342 N Street N. W.,	District of Columbia.
H. A. Dunn, Washington Asylum Hospital,	Illinois.
J. H. Ford, B. S., A. M., Garfield Hospital,	District of Columbia.
H. R. Garland, Coast Survey,	Vermont.
E. L. Goodall, 713 Fourteenth Street N. W.,	Vermont.
R. H. Hardman, War Department,	Indiana.
F. McG. Harstock, 1014 Eighth Street N. W.,	District of Columbia.
P. C. Hutton, 487 Second Street S. E.,	North Carolina.

Name.	Residence.
C. H. James, 109 C Street S. E.,	District of Columbia.
C. R. Johnson, 1449 N Street N. W.,	Delaware.
J. E. Jones, 1213 O Street N. W.,	Ohio.
G. T. Jueneman, 310 Sixth Street N. W.,	District of Columbia.
J. A. Koch, Garfield Hospital,	Ohio.
E. L. Le Merle, D. D. S., 1507 Eighth St. N. W.,	District of Columbia.
Chas. McCulloch, 713 Fourteenth Street N. W.,	Virginia.
N. P. Mills, 1015 L Street, N. W.,	Maryland.
N. J. Olds, 819 M Street N. W.,	Michigan.
R. D. Pope, 10 Grant Place N. W.,	Illinois.
W. Pulsifer, 1412 Fifteenth Street N. W.,	Maine.
E. C. Rice, 418 Twelfth Street N. W.,	Massachusetts.
D. B. Street, 1102 Ninth Street N. W.,	District of Columbia.
R. M. Werdin, 1222 I Street N. W.,	District of Columbia.

### Doctor of Dental Surgery.

William F. Ankeney,	Maryland.
Damon A. Binkert,	Illinois.
Emmett M. Carter,	District of Columbia.
T. B. Cochran,	Virginia.
Eppa H. Coumbe,	Virginia.
James G. Haskell,	Kentucky.
George E. Hurley,	Massachusetts.
Frank H. Walte, Ph. D.,	Maryland.
Richard Washington, M. D.,	Virginia.
Howard A. Wiltberger,	Pennsylvania.
Elmer F. Yount,	District of Columbia.

### Master of Laws.

George Wilson Baker,	District of Columbia.
LL. B., Columbian University, 1896.	
Rufus H. Baker,	New Hampshire.
A. B., Dartmouth College, 1893.	
LL. B., Columbian University, 1896.	
Frank M. Barnes,	Minnesota.
LL. B., Columbian University, 1896.	

Name.	Residence.
Grove Sidney Beardsley, LL. B., Columbian University, 1896.	New York.
Frank Cory Bliss, LL. B., Columbian University, 1896.	Pennsylvania.
Eugene J. Bogen, LL. B., Columbian University, 1896.	Mississippi.
H. LeRoy Browning, LL. B., Columbian University, 1896.	Illinois.
Sherman E. Burroughs, A. B., Dartmouth College, 1894.	New Hampshire.
LL. B., Columbian University, 1896. Charles Benedict Calvert,	Maryland.
LL. B., Columbian University, 1896. George Henry Calvert, Jr.,	Maryland.
A. B., Maryland Agricultural College, LL. B., Columbian University, 1896.	North Carolina.
Luther S. Cannon, A. B., Wake Forest College, 1890.	Massachusetts.
LL. B., Columbian University, 1896. Harry Lincoln Clapp,	Kentucky.
S. B., Massachusetts Institute of Tech- nology, 1893.	District of Columbia.
LL. B., Columbian University, 1896. Francis W. H. Clay,	New Jersey.
C. E., Cornell University, 1893. LL. B., Columbian University, 1896.	Kentucky.
Guy Elliott Davis, LL. B., Columbian University, 1896.	Virginia.
Theodore Taylor Dorman, S. B., Massachusetts Institute of Tech- nology, 1893.	Virginia.
LL. B., Columbian University, 1896. Bertram Martin Doyle,	Kentucky.
Ph. B., Riverside Seminary, 1892. LL. B., Columbian University, 1896.	Virginia.
James N. Fisher, LL. B., Columbian University, 1896.	Virginia.
Arthur I. Flagg, LL. B., Columbian University, 1896.	Virginia.



Name.	Residence.
Justin E. Flannery, LL. B., Columbian University, 1896.	Ohio.
Arthur Lewis Flint, LL. B., Columbian University, 1896.	Ohio.
John Wesley Gardner, LL. B., Columbian University, 1896.	New York.
Thomas Newcombe Greer, LL. B., Columbian University, 1896.	Tennessee.
Frank Ruthven Hanna, LL. B., Columbian University, 1896.	Kansas.
Charles Burkhart Harding, LL. B., Columbian University, 1896.	Pennsylvania.
Edward J. Henning, B. L., University of Michigan, 1894.	Wisconsin.
Granby Hillyer, LL. B., Columbian University, 1896.	Georgia.
Charles A. Hines, LL. B., Columbian University, 1896.	District of Columbia.
Jason Claiborne Hundley, LL. B., Columbian University, 1896.	Virginia.
Abraham B. Keefer, LL. B., Columbian University, 1896.	Pennsylvania.
Colton H. Lee, LL. B., Columbian University, 1896.	District of Columbia.
Alexander D. Lunt, M. E., M. M. E., Cornell University.	New York.
B. S. Worcester Polytechnic Institute.	
LL. B., Columbian University, 1896.	
Robert Lee Maddox, LL. B., Columbian University, 1893.	Kentucky.
Henry Morris Marshall, LL. B., Columbian University, 1896.	Virginia.
John A. Massie, LL. B., Columbian University, 1896.	District of Columbia.
Leonard J. Mather, LL. B., Columbian University, 1896.	District of Columbia.
Wayne Adolphus Mitchell,	North Carolina.
Noble Moore, LL. B., Columbian University, 1896.	Tennessee.

Name.	Residence.
Charles Stothard Muir, LL. B., Columbian University, 1893.	District of Columbia.
Henry Orth, Jr., LL. B., Columbian University, 1896.	District of Columbia.
Wilbur Allen Owen, LL. B., Columbian University, 1896.	Michigan.
Charles W. Parker, LL. B., Columbian University, 1896.	Virginia.
Thornton Jenkins Parker, LL. B., Columbian University, 1896.	Rhode Island.
Bennett Peck, LL. B., Columbian University, 1896.	District of Columbia.
Francis Mohun Phelps, LL. B., Columbian University, 1896.	Connecticut.
James Franklin Philp, LL. B., Columbian University, 1896.	New York.
Aurelian Howard Pinney, LL. B., Columbian University, 1896.	Iowa.
J. Castle Ridgway, LL. B., Columbian University, 1896.	Illinois.
Edward Gaston Russell, Ph. B., University of Georgia, 1890. LL. B., National University, 1893.	Georgia.
J. Martin Scranage, LL. B., Columbian University, 1896.	West Virginia.
Arthur Bingham Selbold, LL. B., Columbian University, 1896.	District of Columbia.
Alonzo Walter Shunk, LL. B., Columbian University, 1896.	Pennsylvania.
Henry E. Stauffer, LL. B., Columbian University, 1896.	Delaware.
Charles H. Stevenson, LL. B., Columbian University, 1896.	Maryland.
Benjamin R. Stuart, Jr., LL. B., Georgetown University, 1896.	South Carolina.
James A. Tanner, LL. B., Columbian University, 1896.	District of Columbia.
Blain W. Taylor, LL. B., Columbian University, 1896.	West Virginia.

Name.	Residence.
William Hill Taylor, LL. B., Columbian University, 1896.	Ohio.
Robert Wharton Test, LL. B., Columbian University, 1896.	Illinois.
John Sarsfield Tucker, LL. B., Columbian University, 1896.	New York.
William Pinckney Walker, LL. B., Columbian University, 1896.	Ohio.
Robert Emmet Wiley, LL. B., Columbian University, 1896.	Arkansas.
Charles Frederick Wilson, LL. B., Columbian University, 1896.	District of Columbia.
W. Oliver Wise, LL. B., Cincinnati Law College, 1896.	Ohio.

**Master of Patent Law.**

Cyrus Nathan Anderson,	Mississippi.
Frank Parker Davis, LL. B., Columbian University, 1896.	District of Columbia.
Reeve Lewis, LL. B., Columbian University, 1896.	District of Columbia.
Emerson R. Newell, A. B., Yale University, 1893. LL. M., Columbian University, 1896.	Connecticut.
Cassell. Severance, LL. M., Columbian University.	District of Columbia.
Horace Greeley Van Everen, M. E., Cornell University, 1891. LL. M., Columbian University, 1896.	New York.
John Chalmers Wilson, LL. B., Columbian University, 1894. LL. M., Columbian University, 1895.	Maryland.

**Bachelor of Laws.**

Maurice LeRoy Alden, A. B., Kansas University, 1895.	Kansas.
Robert Lewis Ames, B. S., University of Michigan. M. E., University of Michigan, 1894.	Michigan.

Name.	Residence.
Percy Franklin Archer,	Maryland.
Howell Bartle,	District of Columbia.
Francis Moulton Benjamin,	Ohio.
James Wilson Bevans,	District of Columbia.
Howard Ray Blanchard,	Virginia.
John Stidham Bonebrake,	Virginia.
Robert Huntington Bosard,	North Dakota.
Stephen Duncan Bradley,	District of Columbia.
Frank Walter Brandenburg,	District of Columbia.
John Waggaman Brawner,	District of Columbia.
Clark Cleland Briggs,	Vermont.
A. B., University of Vermont.	
Harry J. Brown,	New Hampshire.
B. S., Dartmouth College, 1895.	
Arthur Augustine Buck,	Massachusetts.
B. S., Massachusetts Institute of Tech- nology, 1893.	
Bernard John Cain,	District of Columbia.
Henry Clay Carlson,	Minnesota.
John Caywood,	Montana.
B. S., National Normal University, 1896.	
Lindley Daniel Clark,	Tennessee.
A. B., Earlham College, 1886.	
A. M., Maryville College, 1890.	
Henry A. Connor,	California.
William Beson Corwin,	Pennsylvania.
James Lewis Cousar,	Arkansas.
William McKissack Crook.	Texas.
Fred. C. Croxton,	Illinois.
Clifford Tichenor Curry,	Ohio.
George Walton Dalzell,	New York.
Samuel Dalzell,	Pennsylvania.
Joseph A. Dempf,	District of Columbia.
John Hibbett DeWitt,	Tennessee.
A. B., Vanderbilt, 1894.	
Henry Pelouze Doolittle,	District of Columbia.
Leon Lamar Dye,	Mississippi.
William Lewis English,	Illinois.

Name.	Residence.
Samuel Carroll Ford, A. B., Columbian University, 1894. A. M., Columbian University, 1896.	District of Columbia.
Rudolph Forster, Edward Stuyvesant Frith, Augustus Marlon Fulk, Francis Guy Fulk, L. William Gammon, Frederic Briscoe Goodheart, William James Hays, John Thilman Hendrick, Edward J. Henning,	Virginia. Tennessee. Arkansas. Arkansas. New York. Tennessee. Ohio. Tennessee. Wisconsin.
B. L., University of Michigan, 1894. George Jacob Hesselman, James Edwin Jenks, Charles A. Johnson, Madison Ralph Jones,	Illinois. Minnesota. District of Columbia. California.
A. B., University of California. Frank Keiper, A. B., Wabash College, 1891. M. E., Purdue University, 1894. M. A., Wabash College, 1896.	Indiana.
James Benton Lackey, John Wilmer Latimer, Henry Leonard, George Reiss Linkins, William Henry Lopp, M. D., Lewis Henry Machen, George Dallas Mackay, Jr., George Mallison, U. S. N., Benjamin Martin, Jr., Henry Howe McLendon,	District of Columbia. West Virginia. District of Columbia. District of Columbia. Indiana. Virginia. New Jersey. Navy Department. South Carolina. North Carolina.
A. B., Wake Forest College, 1896. William Mehn, Claude E. Miller, David Pelton Moore, Elliott K. Pennebaker, George Washington Peterson, A. B., University of Minnesota, 1893.	Louisiana. Pennsylvania. District of Columbia. Kentucky. Minnesota.

Name.	Residence.
Charles Eugene Phelps,	Illinois.
Samuel Platt,	Nevada.
Spencer B. Prentiss,	District of Columbia.
Ralph H. Riddleberger,	Virginia.
Frederick Dillow Riggles,	Virginia.
Webster S. Ruckman,	Michigan.
B. S., University of Michigan, 1887.	
Herbert Cooper Sanford,	Wisconsin.
B. L., Lawrence University, 1893.	
Edward Thomas Scully,	Massachusetts.
B. A., Williams College, 1894.	
Joe Powell Shoup,	Iowa.
Charles S. Shreve, Jr.,	District of Columbia.
Harvey Faris Smith,	West Virginia.
William Martin Smith,	Ohio.
John James Snodgrass,	District of Columbia.
Gordon Sowers,	District of Columbia.
Augustus Franklin Specht,	Pennsylvania.
John Walton Steward,	District of Columbia.
Willis Eugene Sullivan,	Idaho.
E. Hume Talbert,	District of Columbia.
Otho H. W. Talbott,	Maryland.
Fred. L. Tarbox,	New York.
John Lilburn Thomas, Jr.,	Missouri.
George Prescott Tucker,	Nebraska.
B. S., Worcester Polytechnic Institute.	
Warder Vorhees,	Ohio.
Pere G. Wallmo,	Connecticut.
Harry O. Weaver,	Ohio.
Ferdinand Albert Weller,	District of Columbia.
Cyrus Campbell Wells,	Illinois.
Joseph Wickes Welsh,	Maryland.
William Francis Woolard,	Illinois.

#### Bachelor of Arts.

Helen Ruth Biddis,	Pennsylvania.
Florence Lorraine Bingham,	District of Columbia.
Edmund Kemper Broadus,	Virginia.
Mary Isabel Kelly,	District of Columbia.

Name.	Residence.
Ruth McGowan,	Michigan.
Grace Isabella Ross,	Vermont.
George Edmund Traver Stevenson,	New York.
Hugh Thomas Stevenson,	Illinois.
Clara Mary Upton,	District of Columbia.

**Bachelor of Science.**

William Frederick Blehl,	Ohio.
Ph. B., University of Georgia.	
LL. B., National University.	
Mary Agnes Clancy,	District of Columbia.
Joseph Finckel,	District of Columbia.
Ralph Warren Hills,	Ohio.
Lydia Bacon Holbrook,	Massachusetts.
Frederick Cragin Jones,	District of Columbia.
Anna Campbell Kelton,	California.
Eleanor Annie Lamson,	District of Columbia.
William Mather Lamson,	District of Columbia.
Victor Louis Mason,	District of Columbia.
Edward Adams Muir,	Pennsylvania.
Lillian Pace,	Virginia.
Joseph Saxton Pendleton,	District of Columbia.
Edward George Portner,	District of Columbia.
Fred. Ferguson Reisner,	Missouri.
Charles Kilbourne Robinson,	New Jersey.

**Doctor of Veterinary Science.**

Reid R. Ashworth,	Rhode Island.
William H. Bolyn,	Virginia.
Basll A. Brown,	England.
William S. Ellenberger,	Illinois.
Joseph N. Megary, Jr.,	Maryland.
Floyd G. Scammel,	New York.
John Shaw,	Delaware.
Elbridge C. Switzer,	Massachusetts.
Robert H. Twitty,	North Carolina.
George R. White,	Tennessee.

**Recapitulation.**

Students in the College.....	106
Students in the Scientific School.....	242
Students in the Graduate School.....	68
Students in the Summer School.....	72
Students in the Law School.....	311
Students in the Medical School.....	210
Students in the Dental School.....	70
Students in the Veterinary School.....	14
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Total .....	1,093

**Geographical Distribution of University Students.**

Alabama .....	11	Michigan .....	16	Utah .....	3
Arkansas .....	2	Minnesota .....	10	Vermont .....	7
California .....	9	Mississippi ....	10	Virginia .....	99
Colorado .....	3	Missouri .....	22	Washington ....	1
Connecticut ....	12	Nebraska .....	9	West Virginia..	13
Delaware .....	1	Nevada .....	2	Wisconsin .....	18
D. of Columbia.	304	New Hampshire	6	Wyoming .....	5
Florida .....	3	New Jersey....	21	Armenia .....	1
Georgia .....	20	New York.....	58	Canada .....	2
Idaho .....	5	North Carolina.	24	Chile .....	3
Illinois .....	38	North Dakota...	1	China .....	2
Indiana .....	18	Ohio .....	32	England .....	6
Ind. Territory..	1	Oklahoma .....	1	France .....	1
Iowa .....	28	Oregon .....	2	Germany .....	5
Kansas .....	9	Pennsylvania ..	62	Norway .....	1
Kentucky .....	12	Rhode Island ..	3	Scotland .....	1
Louisiana .....	8	South Carolina..	11	Sweden .....	2
Maine .....	11	Tennessee .....	20	<hr/>	
Maryland .....	77	Texas .....	13	Total .....	1,093
Massachusetts .	28				



CATALOGUE  
OF  
**THE COLUMBIAN UNIVERSITY**

WASHINGTON, D. C.

1898-'99.

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FOUNDED 1821.



CATALOGUE .  
OF  
THE COLUMBIAN UNIVERSITY,

WASHINGTON, D. C.

1898-'99.

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WASHINGTON, D. C.  
Judd & Detweiler, Printers.  
1899.

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S.	M.	T.	W.	T.	F.	S.	S.	M.	T.	W.	T.	F.	S.	S.	M.	T.	W.	T.	F.	S.
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8	9	10	11	12	13	14	2	3	4	5	6	7	8	7	8	9	10	11	12	13
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### FEBRUARY.

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### FEBRUARY.

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### MAY.

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### DECEMBER.

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### JUNE.

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25	26	27	28	29	30	..	..	..	..	..	..	..	..

## CALENDAR.

1898.

Sept. 26, 27,\* *Monday, Tuesday*.—Examinations for Admission to Columbian College.

Sept. 28, *Wednesday*.—Academic year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Oct. 3, *Monday*.—Academic year begins in Law School, Medical School, Dental School, and Graduate Veterinary School.

Nov. 15, *Tuesday*.—Formal opening of School of Comparative Jurisprudence and Diplomacy.

Nov. 24-26, *Thursday to Saturday*.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1898, TO JANUARY 2, 1899, INCLUSIVE.

1899.

Jan. 27, *Friday*.—Mid-year examinations end in Columbian College and Corcoran Scientific School.

Jan. 30, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 1, *Wednesday*.—Annual Meeting of the General Association of Alumni.

Feb. 22, *Wednesday*.—Washington's Birthday; a holiday.

Mar. 31-April 3, *Friday to Monday*.—Easter holidays.

May 10, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 11, *Thursday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 15, *Monday*.—Examinations completed in Medical School and Dental School.

May 17, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

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\*All dates inclusive.

1899.

**May 22, Monday.**—Doctorate Disputation.

**May 26, Friday.**—Davis Prize Speaking in the Columbian College.

**May 28, Sunday.**—Baccalaureate Sermon.

**May 30, Tuesday.**—Final Examinations completed and session closed in Columbian College and Corcoran Scientific School.

**May 29–31, Monday to Wednesday.**—Examinations for Admission to Columbian College.

**May 31, Wednesday.**—Annual Meeting of the Board of Trustees.

**May 31, Wednesday.**—University Commencement.

**June 19, Monday, to July 29, Saturday.**—Session of the Summer School.

SUMMER VACATION.

**Sept. 25, Monday.**—Fall Examinations in Medical School and Dental School.

**Sept. 25–27, Monday to Wednesday.**—Examinations for Admission to Columbian College.

**Sept. 27, Wednesday.**—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

**Oct. 2, Monday.**—Academic Year begins in Law School, School of Comparative Jurisprudence and Diplomacy, Medical School, Dental School, and Graduate Veterinary School.

**Nov. 30–Dec. 3, Thursday to Saturday.**—Thanksgiving recess.

**Dec. 6, Wednesday.**—Annual Meeting of the General Association of Alumni.

RECESS FROM DECEMBER 25, 1899, TO JANUARY 1, 1900, INCLUSIVE.

1900.

**Jan. 26, Friday.**—Mid-year Examinations completed in Columbian College.

**Jan. 27, Saturday.**—Mid-year Examinations completed in Corcoran Scientific School.

the student sees the practical workings of the largest and most important legislative body, and listens to the discussion of matters touching interstate and foreign commerce and diplomatic relations. Here one comes into contact with the practical workings of the National Government in all its parts, and may secure the views and advice of practical men in all the great departments.

Many of the lecturers in the Schools of Law occupy the most important official positions in the gift of the nation and speak from a practical knowledge of the subjects they teach.

To medical and dental students the facilities for study and research are no less remarkable. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or Europe. It has an unrivalled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs.

At the United States Patent Office models of every conceivable form of dental instruments may be daily inspected, thus affording to the student an invaluable opportunity for studying the mechanical contrivances used in dental practice.

In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Of great interest also are the Government Botanical Gardens and the grounds of the Agricultural Department, where there are rare collections of medicinal plants, from which are derived many of the preparations of the *Materia Medica*.

There could be no more appropriate location for a graduate veterinary college than the capital of this great stock-growing country. In the library of the Department of Agriculture and of the Bureau of Animal Industry may be found a vast collection



of works on veterinary medicine and hygiene, bacteriology, and the record books of all the important breeds of animals. The veterinary student will also find here the laboratory and experiment station of the Bureau of Animal Industry, where the highest class of investigations of animal diseases is conducted. These are model institutions, unequalled for their purpose in this country and unsurpassed in the world.

Statesmen, jurists, diplomatists, and legislators are in Washington. Scientific investigations conducted by the Government attract the most eminent scientists; the directory of the Washington Academy of Sciences and Affiliated Societies shows for 1899 a membership of 2,088. The National Capital is a place of meeting for scientific associations and international congresses of all kinds. It is the one city where the student from any part of the country is sure to find a congenial environment.

---

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THEODORE W. NOYES, LL. M., Washington, D. C.  
HIRAM WOODS, Esq., Baltimore, Md.

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LEE DAVIS LODGE.

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---

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CHARLES L. STURTEVANT, B.S., LL.M.	ERNEST L. THURSTON, C. E.

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- CLEVELAND ABBE, JR., A. M., Ph. D.,  
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*Professor of Clinical Medicine,* 913 Sixteenth Street.
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*Professor of Fine Arts as Applied to Architecture,*  
1717 Nineteenth Street.
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*Professor of Mechanical Engineering,*  
1238 Kenesaw Avenue.
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*Professor of Solar Physics,* 1625 Massachusetts Avenue.
- J. WESLEY BOVÉE, A. M., M. D.,  
*Clinical Professor of Gynecology,* 1404 H Street.
- WINTER F. BOWEN,  
*Assistant in Assaying,* 640 K Street, N. E.
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*Professor of Commercial Paper and Criminal Law,*  
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- DAVID J. BREWER, LL. D.,  
*Professor of International Law, of the Law of Corporations,  
and of Equity Jurisprudence,*  
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- EDMUND K. BROADUS, A. B.,  
*Instructor in English in the Summer School.*  
3626 Thirteenth Street.
- GLENN BROWN,  
*Lecturer on Sanitary Engineering,*  
1619 Seventeenth Street.

- DAVID E. BUCKINGHAM, V. M. D.,  
*Professor of Materia Medica and Therapeutics,*  
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*Professor of Ophthalmology,*  
1207 M Street.
- RANDOLPH B. CARMICHAEL, M. D.,  
*Professor of Clinical Dermatology,*  
723 Eighteenth Street.
- WILLIAM P. CARR, M. D.,  
*Professor of Physiology and Clinical Professor of Surgery,*  
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- JAMES CARROLL, M. D.,  
*Professor of Pathology and Bacteriology,*  
Army Medical Museum.
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- MELVILLE CHURCH,  
*Professor of the Law of Patents,*  
1608 Twentieth Street.
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*Assistant in French,*  
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5 Dupont Circle.
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*Instructor in Moot Court Work,*  
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- G. WYTHE COOK, M. D.,  
*Clinical Professor of Medicine,*  
3 Thomas Circle.
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*Dean of the Law School, and Professor of the Law of Real  
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The regular courses of instruction are comprised in twelve departments, as follows:

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- II. CHEMISTRY: General, Inorganic and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis.
- III. ENGLISH: The English Language and Literature, Rhetoric and Composition.
- IV. GERMANIC LANGUAGE AND LITERATURE.
- V. GREEK: The Greek Language and Literature.
- VI. HISTORY: Ancient, Mediæval, and Modern History.
- VII. LATIN: The Latin Language and Literature.
- VIII. MATHEMATICS: Pure Mathematics and Mechanics.
- IX. PHILOSOPHY.
- X. PHYSICS.
- XI. POLITICAL SCIENCE: Politics, Economics, Jurisprudence.
- XII. ROMANCE LANGUAGES: The French Language and Literature, the Spanish Language and Literature, and the Italian Language and Literature.

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CHARLES W. DOWNING, A. M.,  
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- IV. GERMANIC LANGUAGE AND LITERATURE.
- V. GREEK: The Greek Language and Literature.
- VI. HISTORY: Ancient, Mediæval, and Modern History.
- VII. LATIN: The Latin Language and Literature.
- VIII. MATHEMATICS: Pure Mathematics and Mechanics.
- IX. PHILOSOPHY.
- X. PHYSICS.
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## SCHEDULE OF RECITATIONS FOR THE SESSION OF 1899-1900.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Freshman.	9.15-10.10 Mathematics.	Greek.	Mathematics.	Latin.	Mathematics.
	10.10-11.05 Physics.	Physics.	English Literature.	{ Greek. Physics.	Latin.
	11.05-12.00 Chemistry.		Chemistry.	Chemistry.	French.
	12.20- 1.20 French.	French.	Latin.	German.	Greek.
	1.20- 2.15 German.	English.	German.	English.	
	2.15- 3.15 Chemical Laboratory			Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory			Chemical Laboratory.	
Sophomore.	9.15-10.10 Latin.	English.	History.	German.	French.
	10.10-11.05 Physics (A. B.).	Physics (A. B.).	Mathematics.	Physics (A. B.).	{ Greek. Physics.
	11.05-12.00 Chemistry.	Mathematics.	Chemistry.	Chemistry.	Latin.
	12.20- 1.20 English.	German.	English.	{ Greek. Physics.	German.
	1.20- 2.15 { Greek. Physics.	French.	French.	History.	Mathematics.
	2.15- 3.15 Chemical Laboratory	History.	{ Latin. Chemical Labora- tory.	Chemical Laboratory	
	3.15- 4.15 Chemical Laboratory		Chemical Laboratory	Chemical Laboratory	

Arrangements for classes not scheduled will be made upon application.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Junior. { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.20 1.20- 2.15 2.15- 3.15 3.15- 4.15 }	German. Latin.	Psychology. Political Philosophy.	German. Latin.	English. Latin.	Political Philosophy. German.
	Psychology.	French.	{ Greek. Physics. Mathematics. Biblical Literature. History.	Psychology.	Mathematics. { English. Physics. Physics. Greek
	History.	{ Greek. Physics.	{ Greek. Physics. Mathematics. Biblical Literature. History.	French.	
	English.	Physics.	{ French. Chemical Laboratory. Chemical Laboratory.	{ Logic. Biblical Literature. History. Chemical Laboratory. Chemical Laboratory.	
	{ Mathematics. Chemical Laboratory. Chemical Laboratory.	Biblical Literature.			
Senior. { 9.15-10.10 10.10-11.05 11.05-12.00 12.20- 1.20 1.20- 2.15 2.15- 3.15 3.15- 4.15 }	Ethics.	{ German. Constitutional Law. Ethics. International Law.	Political Economy.	Ethics.	Latin.
	Political Economy.		Greek ; Physics.	Political Economy.	English.
	Latin.		{ Latin. Theory of the State. French. Biblical Literature German.	Mathematics.	German.
	Theory of the State.	{ English. Physics.		History.	Physics.
	Mathematics.	{ Physics. History	English.	{ French. Greek. Biblical Literature } Constitutional Law.	Physics.
	{ History of Civilization. Chemical Laboratory. Constitutional History. Chemical Laboratory.	{ French. Biblical Literature	{ History of Civilization. Chemical Laboratory. Mathematics. Constitutional Hist. Chemical Laboratory.	Chemical Laboratory. History. Chemical Laboratory.	

## I.—BIBLICAL LITERATURE.

PROFESSOR POLLARD.

In this department the history, the contents, and literary forms of the Old and New Testaments are taught. The aim is not theological or dogmatic, but literary and historical, the student being guided into correct methods of Bible study and enabled to realize the cultural value of the Biblical classics.

The following courses are offered for the session 1899-1900:

1.3-4\*. Hebrew Prophecy. A study of the national and religious ideals of Israel from the beginnings of written prophecy to the fall of Jerusalem. Two hours,† first term.

2.3-4. The Hebrew Wisdom Literature. Study in the nature of the work and writings of the "Wise Men" of Israel; Hebrew practical philosophy, with special study of Proverbs, Job, and Ecclesiastes. Two hours, second term.

3.3-4. History of the Kingdom of Israel—studied in the light of modern excavation and research. One hour.

4.3-4. Lectures, and Studies in the Life and Times of Christ. Two hours, first term.

5.3-4. Studies in the Life and Writings of Paul. Two hours, second term.

6.3-4. The History of the Bible as a Book, from early manuscripts and versions to the latest English translations and printed Bibles; the influence of the English versions upon English life and letters. One hour.

7.3-4. New Testament Greek. Readings in the Gospels and Epistles, with reference not only to their contents, but also to the Hebraic influence upon the language, and the divergences

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\* Decimals indicate the year in which the course is taken: Freshman, .1; Sophomore, .2; Junior, .3; Senior, .4. Courses open to Juniors and Seniors, .3-4.

† Unless otherwise stated, hours per week throughout the year.



of the Hellenistic Greek from classic usage. A working knowledge of classic Greek is presupposed.

8.3-4. The Hebrew Language. A study of Hebrew Grammar, and selected readings from the Hebrew Bible. Two hours.

During the past session, the Biblical Club, composed of students in this department, has met (at the home of the Professor) for social intercourse, exchange of views, and the hearing of lectures from invited speakers upon Biblical and Oriental themes.

## II.—CHEMISTRY.

PROFESSOR MUNROE.

21.1-2. General, Inorganic and Organic Chemistry; lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Three hours.

Barker's Elementary Chemistry; Remsen's Organic Chemistry.

22.1-2. Laboratory Practice; a laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two hours.

Cooke's Laboratory Practice.

23.2. Preparation of and Study of the Properties of Chemical Substances. Three hours.

Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

24.3. Qualitative Analysis. Three hours.

Clowe's Qualitative Analysis.

25.4. Quantitative Analysis. Three hours.

Newth's Manual of Chemical Analysis.

Students must provide themselves in all the laboratory courses with note-books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University.

*Sprache*); German essays; literature of the second German Blüteperiode; German history; extensive reading from the classics. Three hours.

64.4. Elements of philology; survey of German literature and its relation to the other Germanic peoples; history of the old and the new German Empire; extensive classical reading; introduction into the *Nibelungen Lied* and the *Gudrun Saga*. Three hours.

## V.—GREEK.

PROFESSOR HUNTINGTON.

In this department instruction is given in the Greek Language and Literature. The following books are used as text-books: Goodwin's and Hadley's Greek Grammars, and Allinson's Greek Prose Composition.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering English into Greek, and especially English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kühner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's or Long's or Ginn and Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Smith's, Grote's, and Curtius' Histories of Greece are recommended to students in all the classes.

81.1. Homer; Herodotus. Three hours.

82.2. Xenophon (*Memorabilia*); Lucian. Three hours, first term.

83.2. Isocrates and Lucian. Three hours, second term.

84.3. Sophocles, Euripides, Thucydides, and Demosthenes. Three hours.

85.4. Plato and Æschylus, or Aristophanes. Two hours.

## VI.—HISTORY.

PROFESSOR SWISHER.

The required work in History extends through the Sophomore year, and embraces a careful survey of the more important facts of Mediæval History in their relation of cause and effect. It is designed almost exclusively as a preparation for the fuller election of the two following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the School of Graduate Studies. The work is conducted by means of text-books, lectures, reading, and reports, in all of which it is sought to familiarize the student with original sources.

*European History.*

101.1. Mediæval History. Three hours, first term.

102.1. Renaissance and Protestant Reformation. Three hours, second term.

103.2. Rise and Fall of French Ascendency. Three hours, first term.

104.2. French Revolution and Napoleonic Wars. Three hours, second term.

105.3. Political History of Europe, from Congress of Vienna to that of Berlin. Three hours, first term.

106.3. Present Political Situation in Europe. Three hours, second term.

*English History.*

107.3-4. English History through the Revolution of 1688. Three hours, one term.

108.3-4. The British Empire—Development and Expansion after the Treaty of Utrecht. Three hours, one term.

109.3-4. English Constitutional History. Two hours, one term.

*American History.*

110.3-4. Colonial and Revolutionary Periods to the Adoption of the Constitution of 1789. Three hours, one term.

111.3-4. Development under the Constitution to present time. Three hours, one term.

112.3-4. American Constitutional and Political History. Two hours, one term.

VII.—LATIN.

PROFESSOR DOWNING.

The instruction in this department has in view (1) as thorough knowledge as possible of the idiomatic forms and syntactical relations of the Latin Language; (2) an appreciation of the genius of the Roman people as set forth in their literature. The former is sought through careful translation into English at each recitation, and one exercise each week in Latin Prose; the latter through informal lectures, suggested by the text under discussion, on the origin and development of the different branches of literature, on social and political life, etc.

The following courses, subject to slight changes, are given :

121.1. Cicero (De Senectute or De Amicitia), Horace (Odes). Three hours, first term.

122.1. Livy (Books I and II or XXI and XXII). Three hours, second term.

123.2. Horace (Satires and Epistles), Pliny (Selected Letters). Three hours, first term.

124.2. Tacitus (Germania), Cicero (Selected Letters). Three hours, second term.

125.3. Tacitus (Agricola and Annals I and II). Three hours, first term.

126.3. Juvenal, Cicero (Brutus). Three hours, second term.

127.4. Plautus (Captivi), Terence (Phormio). Primer of Roman Literature. Three hours, first term.

128.4. Lucretius (Book I), Vergil (Selections studied from literary standpoint). Three hours, second term.

Prose Composition in each course.

## VIII.—MATHEMATICS.

PROFESSOR GORE.

In this department instruction is offered in twelve courses.

141.1. Solid Geometry; Gore's Plane and Solid Geometry. Three hours, for two months.

142.1. Algebra, including determinants; Taylor's Algebra. Three hours, for three months.

143.1. Plane Trigonometry; Wells' Trigonometry. Three hours, for two months.

144.2. Spherical Trigonometry; Wells' Trigonometry. Three hours, for two months.

145.2. Analytic Geometry; Nichols' Analytic Geometry. Three hours, for four months.

146.2. Theory of Equations; Chapman's Theory of Equations. Three hours, for two months.

147.3. Differential and Integral Calculus, Taylor. Three hours, for five months.

148.3. Differential Equations; lectures, notes by Professor Gore. Three hours, for three months.

149.4. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours, for one term.

150.4. Elliptic Functions, Baker. Two hours, for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution

109.3-4. English Constitutional History. Two hours, one term.

*American History.*

110.3-4. Colonial and Revolutionary Periods to the Adoption of the Constitution of 1789. Three hours, one term.

111.3-4. Development under the Constitution to present time. Three hours, one term.

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146.2. Theory of Equations; Chapman's Theory of Equations. Three hours, for two months.

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149.4. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours, for one term.

150.4. Elliptic Functions, Baker. Two hours, for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution

a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

*Optional Courses.*

151.4. Analytical Mechanics. One hour.

152.4. Theory of Probabilities, with Applications to Least Squares; Lectures, notes by the professor. One hour.

## IX.—PHILOSOPHY.

PROFESSOR STERRETT.

The special studies in this department are pursued in the two upper classes.

161.3. Logic. Jevons-Hill, *Elements of Logic*, is used as a text-book. One hour.

162.3. Psychology. The first term is given to the study of Psychology, the aim being to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations.

Dewey and Harris are used as hand-books, with lectures, themes, and constant reference to the leading works on Psychology. Three hours, first term.

163.3. History of Philosophy. The second term is given to (1) the study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-books—Schwegler and Weber; (2) the statement and discussion of the fundamental problems of philosophy. Three hours, second term.

164.4. Ethical Theories—historical course. The Senior Class spends the first half of the year in the study of the chief ethical theories. The members of the class are required to study the



text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. Three hours, first term.

165.4. Theory of Ethics. A critical and constructive theory of ethics. McKenzie's *Manual of Ethics* and Dewey's *Outlines of Ethics* are put into the hands of the students for use, and Green's *Prolegomena to Ethics* is used as a text-book. Three hours, second term.

A course of lectures is also given on the fundamental postulates, concepts, and principles of Christian Ethics.

This is followed by a six weeks' course on the Philosophy of History.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon), and for attendance on the course of papers and discussions before *The Society for Philosophical Inquiry*, meeting at the University every Tuesday afternoon. The program of the Society for the current year is the critical study of Kant's *Critique of The Practical Reason* and *The Critique of the Judgment*.

*Courses—Alternate and Elective.*

166. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. One hour, first term.

167. History of Ancient Philosophy. Lectures, with study of some of the text, and Zeller's History. Three hours, second term.

168. History of Modern Philosophy, alternating with (167) Lectures, with study of text of several systems and with reference to Falkenburg and Windelband. Three hours, second term.

169. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. Painter and Rosenkranz. Elective. One hour, second term.

170. The Metaphysics of Ethics. Study of Green's *Prolegomena to Ethics*. One hour, second term.

## X.—PHYSICS.

PROFESSOR HODGKINS.

181.1-2. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures are illustrated by experiments, and are based on Gage's Principles of Physics. Three hours.

182.2. An advanced course on General Physics. This is a theoretical and mathematical course, and it requires a thorough acquaintance with the phenomena of Physics. Three hours.

183.3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course 181. Lectures on physical theories and on laboratory methods are given from time to time. Topics for study and discussion are assigned to the whole class, and to different members of the class are assigned subjects upon which to prepare special reports. Three hours.

184.3-4. A lecture and laboratory course in Magnetism and Electricity. Three hours.

185.3-4. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three hours.

186.3-4. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three hours.

## XI.—POLITICAL SCIENCE.

PROFESSOR LODGE.

MAJOR J. W. POWELL.

DOCTOR O. T. MASON.

DOCTOR L. F. WARD.

The studies in this department are designed to furnish the learner with an account of the genesis, development, and growth of political institutions. In all the branches pursued, the method

is comparative. Particular pains are taken to send students to the original sources of information as far as possible. To this end the class are constantly called upon to make use of the unequalled facilities of the Capital City for historical research. The archives of the Department of State are utilized to bring the student into direct contact with the original documents of American history.

#### PROFESSOR LODGE.

201.3-4. The Development of the English Constitution; lectures; collateral reading; studies in Gardiner, Freeman, Stubbs, Gneist, and Boutmy. Two hours, for three months.

. 202.3-4. The History of French Political Institutions; lectures; studies in Guizot, Taine, and Sir James Stephens. ] Two hours, for three months.

203.3-4. The Evolution of American Political Ideas; lectures; studies of our history in its sources; collateral reading in the standard American historians and in C. E. Steven's *Sources of the Constitution*. Two hours, for three months.

204.3-4. Political Economy; text-book, Hadley; studies in socialism and communism, coöperation, and other current economic problems. Three hours.

205.3-4. The History of Political Economy in Europe; lectures; studies in Blanqui, Ingram and Espinas. One hour, for one term.

206.3-4. The Economic History of the United States; lectures; studies in Wells, Sumner, and Taussig. One hour, for one term.

207.3-4. The Constitutional Law of the United States; text-books, Cooley and Bryce, with frequent studies in Elliot's *Debates*, the *Federalist*, Bancroft's *Formation of the Constitution*, Marshall, Story, Pomeroy, and Von Holst. Two hours.

208.3-4. International Law; text-books, Gallaudet and Lawrence; lectures on the History of the Law of Nations; studies in Maine, Wheaton, and Calvo. One hour.

209.3-4. The Theory of the State; text-books, *Histoire de la Science Politique*, Janet; *History of the Science of Politics*,

Pollock; The Theory of the State, Bluntschli; studies in Montesquieu, Hobbes, Locke, and Woolsey. Two hours.

210.3-4. History of Civilization, a course of lectures on history, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies in primitive society, and are followed by a rapid survey of the "civilizing stream" in its passage from Egypt through Assyria, Judea, Phoenicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America. Two hours.

MAJOR J. W. POWELL.

211.3-4. Culturgeschichte.

DOCTOR O. T. MASON.

212.3-4. Origins of Invention.

DOCTOR L. F. WARD.

213.3-4. Sociology.

## XII —ROMANCE LANGUAGES.

PROFESSOR RAMSEY.

### *French Language and Literature.*

221.1. During the first term the class undergoes a thorough drill in pronunciation and becomes familiar with the spoken language. In the study of the grammar especial stress is laid upon acquiring a readiness in applying the principles learned, and to this end a large number of graded exercises are rendered, both orally and in writing, into French. At least twice a month a talk on some simple topic is given in French, and the class is required to render portions of it into English. During the last term the students prepare exercises based upon portions of the texts read in class. Three hours.

Text-books: Keetel's Elementary French Grammar; Roulier's First Book of French Composition; Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary); Labiche et Delacour, *Les Petits Oiseaux*.

222.2. The first term is devoted mainly to a review of the grammar, as presented by a more complete text-book, with abundant exercises in both oral and written translation. During the remainder of the year the syntax is carefully studied, and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. At least two hours per month are devoted to French conversation. Three hours.

Text-books: Whitney's Practical French Grammar; Hennequin's Lessons in Idiomatic French; Lacombe, *Petite Histoire du Peuple Français*; Mérimée, *Colomba*; Achard, *Le Clos Pommier*; de Maistre, *Les Prisonniers du Caucase*.

223.3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Doumic's *Histoire de la Littérature Française* is used as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally the class is instructed in the broader principles of rhetoric and style. During the second term the students read and summarize (outside of class hours) some representative works of the Mediæval and Classic periods. Three hours.

Text-books: René Doumic, *Histoire de la Littérature Française*; Corneille, *Le Cid*; Racine, *Athalie*; La Fontaine, *Fables Choies*; Walter's Classic French Letters.

224.4. The study of the literature is continued in this year largely by the reading of texts, the students writing criticisms in French of the works that pass under their notice. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from representative works of the present century. An effort is made to have several lectures upon literary themes delivered in French by persons not connected with the University. Three hours.

Text-books: Pellissier, *Mouvement Littéraire au XIX<sup>me</sup> siècle*; texts as required.

*Spanish Language and Literature.*

(Requirements for admission : Latin, 121, 122, French, 221, 222.)

231.3-4. The study of the language is taken up at the first elements, especial stress being laid upon the acquisition of a correct pronunciation. The principles of the grammar and syntax are studied and enforced by the translation of exercises into Spanish. The class is familiarized from the outset with the spoken language by means of descriptive talks upon simple topics, and later by its use as the medium of instruction. Three hours.

Text-books: Ramsey's Text-Book of Modern Spanish, Elementary Spanish Reader, and Spanish Prose Composition.

*Italian Language and Literature.*

(Requirements for admission : Latin, 121, 122, 123, 124; French, 221, 222.)

236.3-4. The instruction is intended to give the students a good pronunciation, the essentials of grammar, a fair amount of vocabulary, and an ability to read easy prose at sight. After the grammatical rudiments have been mastered and impressed by written and oral translation of exercises, the class passes to the reading of connected texts. Three hours.

Text-books: Lemmi's Italian Grammar; de Amicis, *Cuore*; Barrili, *Una Notte Bizarra*; Gherardi del Testa, *L'oro e l'orpello*.

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DEPARTMENTS IN THE CORCORAN SCIENTIFIC SCHOOL OPEN TO  
COLLEGE STUDENTS.

Astronomy (see page 62).

Botany (see page 63).

Geology and Mineralogy (see page 74).

Zoölogy (see page 90).

### ADMISSION.

The College is open to students of both sexes.

The session of 1899-1900 will open September 27, 1899.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of stand-

ing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

## I.

*Admission to Courses Leading to Degrees.*

Candidates for admission to the Freshman Class are examined in certain required books and subjects. Certificates, in lieu of any or all examinations, will be accepted (1) from schools whose work is attested by well-prepared students admitted to the College in previous years, and (2) from schools desiring coöperation with the College, that present evidence of affording adequate preparation in the required books and subjects. The chairman of the Committee on Admission of Students will, on application, furnish certificate blanks to the principals of such accredited schools.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., on Monday, Tuesday, and Wednesday, May 29, 30, and 31, 1899. A second examination is held at the beginning of the college year, on Monday, Tuesday, and Wednesday, September 25, 26, and 27, 1899. The following is the schedule for both examinations:

## ORDER OF MAY EXAMINATIONS.

*Monday, May 29, 1899.*

[Registration of applicants in room 25.....	8.30- 9.00]
Latin.....	9.00-11.00
Plane Geometry; Solid Geometry.....	11.00- 1.00
Algebra (a); Algebra (b).....	2.00- 4.00

*Tuesday, May 30.*

Greek; Physics; Chemistry.....	9.00-11.00
History.....	11.00- 1.00
German.....	2.00- 4.00

*Wednesday, May 31.*

Plane Trigonometry.....	9.00-11.00
French.....	11.00- 1.00
English.....	2.00- 4.00

Pollock; The Theory of the State, Bluntschli; studies in Montesquieu, Hobbes, Locke, and Woolsey. Two hours.

210.3-4. History of Civilization, a course of lectures on history, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies in primitive society, and are followed by a rapid survey of the "civilizing stream" in its passage from Egypt through Assyria, Judea, Phœnicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America. Two hours.

MAJOR J. W. POWELL.

211.3 4. Culturgeschichte.

DOCTOR O. T. MASON.

212.3-4. Origins of Invention.

DOCTOR L. F. WARD.

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Text-books: Keetel's Elementary French Grammar; Roulier's First Book of French Composition; Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary); Labiche et Delacour, *Les Petits Oiseaux*.

222.2. The first term is devoted mainly to a review of the grammar, as presented by a more complete text-book, with abundant exercises in both oral and written translation. During the remainder of the year the syntax is carefully studied, and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. At least two hours per month are devoted to French conversation. Three hours.

Text-books: Whitney's Practical French Grammar; Hennequin's Lessons in Idiomatic French; Lacombe, *Petite Histoire du Peuple Français*; Mérimée, *Colomba*; Achard, *Le Clos Pommier*; de Maistre, *Les Prisonniers du Caucase*.

223.3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Doumic's *Histoire de la Littérature Française* is used as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally the class is instructed in the broader principles of rhetoric and style. During the second term the students read and summarize (outside of class hours) some representative works of the Mediæval and Classic periods. Three hours.

Text-books: René Doumic, *Histoire de la Littérature Française*; Corneille, *Le Cid*; Racine, *Athalie*; La Fontaine, *Fables Choies*; Walter's Classic French Letters.

224.4. The study of the literature is continued in this year largely by the reading of texts, the students writing criticisms in French of the works that pass under their notice. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from representative works of the present century. An effort is made to have several lectures upon literary themes delivered in French by persons not connected with the University. Three hours.

Text-books: Pellissier, *Mouvement Littéraire au XIX<sup>me</sup> siècle*; texts as required.

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**Text-books:** Keetel's Elementary French Grammar; Roulier's First Book of French Composition; Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary); Labiche et Delacour, *Les Petits Oiseaux*.

222.2. The first term is devoted mainly to a review of the grammar, as presented by a more complete text-book, with abundant exercises in both oral and written translation. During the remainder of the year the syntax is carefully studied, and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. At least two hours per month are devoted to French conversation. Three hours.

**Text-books:** Whitney's Practical French Grammar; Hennequin's Lessons in Idiomatic French; Lacombe, *Petite Histoire du Peuple Français*; Mérimée, *Colomba*; Achard, *Le Clos Pommier*; de Maistre, *Les Prisonniers du Caucase*.

223.3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Doumic's *Histoire de la Littérature Française* is used as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally the class is instructed in the broader principles of rhetoric and style. During the second term the students read and summarize (outside of class hours) some representative works of the Mediæval and Classic periods. Three hours.

**Text-books:** René Doumic, *Histoire de la Littérature Française*; Corneille, *Le Cid*; Racine, *Athalie*; La Fontaine, *Fables Choisies*; Walter's Classic French Letters.

224.4. The study of the literature is continued in this year largely by the reading of texts, the students writing criticisms in French of the works that pass under their notice. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from representative works of the present century. An effort is made to have several lectures upon literary themes delivered in French by persons not connected with the University. Three hours.

**Text-books:** Pellissier, *Mouvement Littéraire au XIX<sup>me</sup> siècle*; texts as required.

*Spanish Language and Literature.*

(Requirements for admission : Latin, 121, 122 , French, 221, 222.)

231.3-4. The study of the language is taken up at the first elements, especial stress being laid upon the acquisition of a correct pronunciation. The principles of the grammar and syntax are studied and enforced by the translation of exercises into Spanish. The class is familiarized from the outset with the spoken language by means of descriptive talks upon simple topics, and later by its use as the medium of instruction. Three hours.

Text-books: Ramsey's Text-Book of Modern Spanish, Elementary Spanish Reader, and Spanish Prose Composition.

*Italian Language and Literature.*

(Requirements for admission : Latin, 121, 122, 123, 124 ; French, 221, 222.)

236.3-4. The instruction is intended to give the students a good pronunciation, the essentials of grammar, a fair amount of vocabulary, and an ability to read easy prose at sight. After the grammatical rudiments have been mastered and impressed by written and oral translation of exercises, the class passes to the reading of connected texts. Three hours.

Text-books: Lemmi's Italian Grammar; de Amicis, *Cuore*; Barrili, *Una Notte Bizarra*; Gherardi del Testa, *L'oro e l'orpello*.

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DEPARTMENTS IN THE CORCORAN SCIENTIFIC SCHOOL OPEN TO  
COLLEGE STUDENTS.

Astronomy (see page 62).

Botany (see page 63).

Geology and Mineralogy (see page 74).

Zoölogy (see page 90).

### ADMISSION.

The College is open to students of both sexes.

The session of 1899-1900 will open September 27, 1899.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of stand-

ing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

## I.

*Admission to Courses Leading to Degrees.*

Candidates for admission to the Freshman Class are examined in certain required books and subjects. Certificates, in lieu of any or all examinations, will be accepted (1) from schools whose work is attested by well-prepared students admitted to the College in previous years, and (2) from schools desiring coöperation with the College, that present evidence of affording adequate preparation in the required books and subjects. The chairman of the Committee on Admission of Students will, on application, furnish certificate blanks to the principals of such accredited schools.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N.W., on Monday, Tuesday, and Wednesday, May 29, 30, and 31, 1899. A second examination is held at the beginning of the college year, on Monday, Tuesday, and Wednesday, September 25, 26, and 27, 1899. The following is the schedule for both examinations:

## ORDER OF MAY EXAMINATIONS.

*Monday, May 29, 1899.*

[Registration of applicants in room 25.....	8.30- 9.00]
Latin.....	9.00-11.00
Plane Geometry; Solid Geometry.....	11.00- 1.00
Algebra (a); Algebra (b).....	2.00- 4.00

*Tuesday, May 30.*

Greek; Physics; Chemistry.....	9.00-11.00
History.....	11.00- 1.00
German.....	2.00- 4.00

*Wednesday, May 31.*

Plane Trigonometry.....	9.00-11.00
French.....	11.00- 1.00
English... ..	2.00- 4.00

## ORDER OF SEPTEMBER EXAMINATIONS.

*Monday, September 25, 1899.*

[Registration of applicants in room 25.... ..	8.30- 9.00]
Latin .....	9.00-11.00
Plane Geometry; Solid Geometry.....	11.00- 1.00
Algebra ( <i>a</i> ); Algebra ( <i>b</i> ).....	2.00- 4.00

*Tuesday, September 26.*

Greek; Physics; Chemistry.....	9.00-11.00
History.....	11.00- 1.00
German.....	2.00- 4.00

*Wednesday, September 27.*

Plane Trigonometry.....	11.00- 1.00
French.....	1.30- 3.30
English .....	3.30- 5.30

The College is prepared to appoint examinations in any city, or at any school where the number of applicants or the distance from Washington may warrant it. Correspondence on this subject should be addressed to the Dean of the College.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates for admission to the course leading to the degree of Bachelor of Arts are examined in English, Greek, Latin, Greek and Roman History, French or German, Algebra (*a*), and Plane Geometry.

Candidates for admission to the course leading to the degree of Bachelor of Science are examined in English, Algebra (*a*), Algebra (*b*), Plane Geometry, Solid Geometry, Plane Trigonometry, Physics or Chemistry, English and American History (or Greek and Roman), and in two of the following languages: French, German, Latin.

Requirements for admission to the several departments are as follows:

*English.*

Candidates are expected to be familiar with the elements of Rhetoric, and no candidate will be accepted whose work is ob-



viously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Practice.*—The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is to test the candidate's power of clear and accurate expression. In place of a part or the whole of this test, the candidate may be allowed to present an exercise-book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination are:

In 1899: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

In 1900: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; *Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

In 1901: George Eliot's *Silas Marner*; Pope's Translation of the *Iliad*, Books i, vi, xxii, and xxiv; The *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*.

In 1902: George Eliot's *Silas Marner*; Pope's Translation of the *Iliad*, Books i, vi, xxii, and xxiv; The *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*;

Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*.

2. *Study and Practice*.—This part of the examination requires a more careful study of each of the works named.

It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are:

In 1899: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

In 1900: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Addison and Milton*.

In 1902: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Addison and Milton*.

#### *Greek.*

1. Goodwin's or Hadley's *Greek Grammar*.
2. Goodwin's *Greek Reader* or Xenophon's *Anabasis*, Books 1-4.
3. First three books of Homer's *Iliad*.
4. Jones' *Greek Prose Composition*.
5. *Greek History*. (See under Admission in History.)

Applicants for admission to the Freshman Class are expected to be thoroughly acquainted with all the principal topics of the *Greek Grammar* of Goodwin or of Allen's *Hadley*, including the Derivation and Composition of Words, Accent, and the elements of Prosody, especially the construction of Dactylic Hexameter.

They will be required to translate into good English two or three passages of the prescribed portions of Homer, and also of Xenophon, and to show a familiarity with the grammatical forms and constructions included, or with others which might be used instead.

They will also be expected to translate at sight selections from one of the other books of the *Iliad* and of the *Anabasis*.

Also to translate English sentences in connected discourse into idiomatic Greek, with the proper accents and with the mention of other construction which might be used.

*Latin.*

Candidates are expected to have taken a systematic course in Latin, extending at least through three years, five times per week; to have had training in translating English into Latin throughout the entire course, and during the last half, at least, the translation of connected English prose.

It is expected that the following work, barring slight variations, will have been done:

1. Beginner's Book and 30 to 40 pages of easy Latin.
2. Four books of Cæsar, Nepos.
3. Cicero: Catiline Orations, pro Archia, and pro Milone, or its equivalent.
4. First six books of Vergil's *Æneid*.
5. Roman History. (See under Admission in History.) The examination will be in two parts:

(a.) Translation of passages selected from the work above outlined and a short passage of prose to be read at sight. The translation must be in idiomatic English. To attain facility in this, frequent written translations during the years of preparation are advised.

(b.) The examination in Grammar and Composition for 1899 and 1900 will be based on the first three orations of Cicero against Catiline. A thorough test of form and syntax will be given. The composition will be connected English based on this vocabulary, and will contain no construction not found in these orations.

*French.*

1. A knowledge of the essentials of the grammar.
2. An ability to read at sight ordinarily easy French prose.
3. An ability to translate easy English exercises into French.

The examination is adapted to the proficiency of those who have studied French to the equivalent of a systematic course of three hours a week for eight months. It consists of three parts, covering the ground indicated above. These parts may not be taken separately.

(a.) The grammatical knowledge required includes the leading

Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*.

2. *Study and Practice*.—This part of the examination requires a more careful study of each of the works named.

It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are:

In 1899: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

In 1900: Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Addison and Milton*.

In 1902: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Addison and Milton*.

#### *Greek.*

1. Goodwin's or Hadley's *Greek Grammar*.
2. Goodwin's *Greek Reader* or Xenophon's *Anabasis*, Books 1-4.
3. First three books of Homer's *Iliad*.
4. Jones' *Greek Prose Composition*.
5. *Greek History*. (See under Admission in History.)

Applicants for admission to the Freshman Class are expected to be thoroughly acquainted with all the principal topics of the *Greek Grammar* of Goodwin or of Allen's *Hadley*, including the Derivation and Composition of Words, Accent, and the elements of Prosody, especially the construction of Dactylic Hexameter.

They will be required to translate into good English two or three passages of the prescribed portions of Homer, and also of Xenophon, and to show a familiarity with the grammatical forms and constructions included, or with others which might be used instead.

They will also be expected to translate at sight selections from one of the other books of the *Iliad* and of the *Anabasis*.

Also to translate English sentences in connected discourse into idiomatic Greek, with the proper accents and with the mention of other construction which might be used.

*Latin.*

Candidates are expected to have taken a systematic course in Latin, extending at least through three years, five times per week; to have had training in translating English into Latin throughout the entire course, and during the last half, at least, the translation of connected English prose.

It is expected that the following work, barring slight variations, will have been done:

1. Beginner's Book and 30 to 40 pages of easy Latin.
2. Four books of Cæsar, Nepos.
3. Cicero: Catiline Orations, pro Archia, and pro Milone, or its equivalent.
4. First six books of Vergil's *Æneid*.
5. Roman History. (See under Admission in History.) The examination will be in two parts:

(a.) Translation of passages selected from the work above outlined and a short passage of prose to be read at sight. The translation must be in idiomatic English. To attain facility in this, frequent written translations during the years of preparation are advised.

(b.) The examination in Grammar and Composition for 1899 and 1900 will be based on the first three orations of Cicero against Catiline. A thorough test of form and syntax will be given. The composition will be connected English based on this vocabulary, and will contain no construction not found in these orations.

*French.*

1. A knowledge of the essentials of the grammar.
2. An ability to read at sight ordinarily easy French prose.
3. An ability to translate easy English exercises into French.

The examination is adapted to the proficiency of those who have studied French to the equivalent of a systematic course of three hours a week for eight months. It consists of three parts, covering the ground indicated above. These parts may not be taken separately.

(a.) The grammatical knowledge required includes the leading

uses of the articles (including the "partitive construction"), the formation of the plurals of nouns, and of the feminine forms of adjectives; the comparison of adjectives and adverbs, the distinctions between the two sets of objective forms of personal pronouns, location of objective personal pronouns, negative and interrogative sentences, the entire conjugation of *être*, *avoir*, and the model verbs, and the leading tense forms of the more usual irregular verbs. Rare and unusual words and forms are in all cases excluded.

(b.) The passages set for translation into English are suited to candidates who have read not less than three hundred duodecimo pages, which must be from the works of at least two authors; this amount includes sight reading done in class. It is important that all translation be done into clear and idiomatic English.

(c.) The sentences given to be rendered into French are such as would be found in an ordinary text-book for beginners.

#### *German.*

Candidates are expected to have an accurate knowledge of elementary grammar, including the principal syntactical laws of the language. A careful preparatory study of Otis' German Grammar or Joynes-Meissner or Edgren-Fossler or Calvin Thomas' German Grammar (I part) will convey sufficient training in the language. The knowledge of the candidate will be tested by a written examination in German composition and the writing of an easy theme in German.

The oral examination will consist in the reading at sight of narrative prose and such poetry as is usually found in a First Reader. About 150 pages of an elementary text-book, accurately studied, will be considered a sufficient preparation. Special stress will be laid upon a good German pronunciation.

#### *History.*

Candidates for admission to the course leading to the degree of Bachelor of Arts:

Greek History, through the Roman Conquest, as much as is contained in Myers' History of Greece.

Roman History, as much as is contained in Allen's History of the Roman People.

Candidates for admission to the course leading to the degree of Bachelor of Science:

English History, as much as is contained in Montgomery's History of England.

American History, as much as is contained in Alexander Johnston's History of the United States.

### *Mathematics.*

Algebra (*a*). Factoring, fractions, equations of the first degree, with one or more unknown quantities, solution of problems, inequalities, powers and roots, reduction of radicals, quadratic equations.

Algebra (*b*). Quadratic equations, ratio and proportion, progressions, permutations and combinations, binomial theorem, undetermined coefficients.

Plane Geometry. Demonstrations, constructions, computation of areas.

Solid Geometry. Demonstrations, computation of surfaces and volumes.

Plane Trigonometry, including the solution of trigonometric equations.

### *Physics.*

Candidates must show an acquaintance with the more important phenomena of physics, and with the principles involved in the explanation of them. They must be able to solve simple numerical problems, and must understand the metric system. Gage's Introduction to Physical Science or Carhart and Chute's Physics will give suitable preparation, if supplemented by laboratory work. The laboratory note-book must be shown at the time of the examination. One year's study, five periods a week, will probably give the preparation needed; but in any case the entire subject, as treated in a book of the grade indicated above, must be completed.

### *Chemistry.*

Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation. This requirement presupposes a systematic course of two hours of class-room exercises and three hours of laboratory work per week for a period of eight months.

## II.

*Admission to Special Courses.*

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study by the head of the department. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

Every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections *not less than three distinct departments, with at least twelve recitations or lectures a week*. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

No one is admitted as a special student who has within four months of the time of his application been rejected by the Committee on Admissions as a regular student or has within that time become deficient as a regular student.

## III.

*Admission to Advanced Standing.*

Candidates for admission to an advanced class in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued elsewhere.

## DEGREES.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "School of Graduate Studies" in this Catalogue.



*Course of Study Leading to the Degree of Bachelor of Arts.*

(The figures refer to the numbers of the courses in the several departments of the College, as previously described.)

## FRESHMAN YEAR.

English, 41, 44.	{ French, 221; or German, 61.
Greek, 81.	
Latin, 121, 122.	Mathematics, 141, 142, 143.

## SOPHOMORE YEAR.

English, 42.	{ French, 222; or German, 62.
{ Greek, 82, 83; or	
Latin, 123, 124.	{ Chemistry, 21, 22; or Physics, 181.
History, 101, 102.	

## JUNIOR YEAR.

{ Greek, 84; or	Philosophy, 162, 163.
Latin, 125, 126.	
Elective, 9 hours a week.	

## SENIOR YEAR.

Political Philosophy, 204. Philosophy, 164, 165.  
Elective, 9 hours a week.

*Course of Study Leading to the Degree of Bachelor of Science.*

## FRESHMAN YEAR.

\* Two of the following:

English, 41, 44.	French, 221.
Chemistry, 21, 22.	German, 61.
Physics, 181.	Latin, 123, 124.

## SOPHOMORE YEAR.

{ French, 222; or	History, 101, 102.
German, 62.	Chemistry, 23.
Mathematics, 144, 145, 146	Physics, 182.

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\* The two languages presented at entrance will be continued through the Freshman year.

## JUNIOR YEAR.

Mathematics, 147, 148.

{ Chemistry, 24 ; or  
{ Physics, 183.

Elective, 9 hours a week.

## SENIOR YEAR.

Elective, 15 hours a week.

## EXAMINATIONS.

At the end of each term examinations are held in the studies of that term.

The results of the term examinations are combined with those of the daily recitations of the student during the term in order to ascertain his academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and failing to do so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement. In order to graduate, students must obtain at least *75 per cent.* in the final examinations on all of the subjects.

Examinations for prizes are concluded three weeks before the end of each scholastic year.

## ANNUAL PRIZES.

Besides the honors and degrees conferred in the regular course, prizes are annually offered as rewards for special excellence in particular branches of study.

The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. These prizes are awarded by a committee selected by the Faculty for this purpose, and are publicly delivered at the Annual Commencement. Senior students desiring to compete for the Davis Prizes should report to the Professor of English

not later than April 1 of each year, and submit their orations not later than May 1.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from any Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance in the College for one year.

The Class of '96 James Macbride Sterrett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees are allowed to compete.

### PRIZES IN 1897-'98.

Staughton Prize, Reed Paige Clark.

Elton Prize, Reed Paige Clark, Thatcher Clark.

Ruggles Prize, Christopher George Storm.

Gore Prize in Parliamentary Law, Albert Rett Stuart.

James Macbride Sterrett, Jr., Prize in Physics, Quiroff Harlan.

First Davis Prize in Elocution, Frances Mabel Jacobs.

Second Davis Prize in Elocution, J. Carroll Hoover.

### ANNUAL COMMENCEMENT.

The Annual Commencement is held on the Wednesday nearest the first of June.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any department are publicly delivered on the same day.

### PUBLIC WORSHIP.

Brief devotional exercises are held in the Hall of the University on every week day except Saturday, at 9 o'clock a. m. All students are expected to attend these services.

### THE LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m.

### UNIVERSITY LECTURES.

Students of the College are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

### LITERARY SOCIETY.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

### GENERAL REGULATIONS.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered to parents or guardians at the end of each term.

The schedule of recitations is arranged to meet the requirements of the curriculum, and no choice of studies that involves conflicts in recitation periods will be permitted.

Junior and Senior students who desire to elect work in Astronomy, Botany, Geology and Mineralogy, or Zoölogy may avail themselves of the courses offered by the Corcoran Scientific School in those departments.

Electives in the Junior and Senior years to be credited for a degree must be chosen from Junior or Senior subjects.

No student who is a candidate for a degree may, without special permission of the Faculty, take more than six hours in one scholastic year in any one department.

No student is permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

### COLLEGE EXPENSES.

1. Admission fee (paid but once, on entrance).....	\$10 00
2. Tuition for the year in three or more departments...	100 00
3. Tuition for the year in two departments.....	70 00
4. Tuition for the year in one department.....	50 00
5. Materials for laboratory courses in Chemistry, each course .....	10 00
6. Final Diploma Fee .....	10 00

These charges cover all expenses except those incurred through breakage or damage of apparatus, tools, instruments, furniture, or buildings.

Bills are payable semi-annually, in advance.

### SCHOLARSHIPS.

The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on the best scholar in the Washington High Schools. This scholarship continues throughout the College course, and students on this foundation pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars.

The University offers six scholarships to be distributed annually among the High Schools of Washington. Candidates for these scholarships will take the May entrance examinations for the College course leading to the degree of A. B., or the degree of B. S., as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. (For conditions under which these scholarships are assigned, see page 93 of this Catalogue.) The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

### ROOMS AND BOARD.

Desirable rooms, convenient to the University buildings, are obtainable at prices ranging from \$5 to \$15 per month, and good board is offered at from \$15 to \$20 per month. A list of eligible boarding-houses will, upon request, be furnished by the Registrar of the University.

For further information concerning the Columbian College, application may be made to

A. J. HUNTINGTON, *Dean,*  
*The Columbian College, Washington, D. C.*

### STUDENTS.

#### *Candidates for Degrees.*

Name.	State.	Address.
Altschu, John Henry .....	D. C. . . .	1334 G Street.
Ashford, Horace Frost . . . . .	D. C. ....	1763 P Street.
Bacon, Rev. Charles Baldwin . . .	Mass . . . .	1116 14th Street.
Beard, Edward Abbot .....	D. C. ....	1305 N Street.
Beatty, J. William . . . . .	Mo. ....	113 G Street.
Berry, George Magruder .....	Md . . . .	2017 H Street.
Birch, Blanche Louise .....	D. C. ....	1231 31st Street.
Brown, Lorenzo Starr, Jr. ....	Va. ....	1509 13th St.
Buxton, Bronson C. . . . .	Va. ....	Falls Church, Va.
Chase, George G . . . . .	Kan. . . .	2017 Mass. Avenue.
Clark, Bertha Winifred .....	N. Y . . . .	311 C Street.
Coburn, Harry C., Jr. ....	D. C. ....	2111 G Street.

Name.	State.	Address.
Cockerille, Paul.....	D. C.....	1340 I Street.
Cutter, E. Kendall .....	D. C.....	1522 K Street.
Doner, Harry Tennyson.....	D. C.....	738 11th Street.
Draper, Lida.....	D. C.....	923 H Street.
Evans, Lola May.....	D. C.....	2227 13th Street.
Flint, Weston Brown.....	D. C.....	1213 K Street.
Ford, May Elizabeth .....	D. C. ...	312 2d Street, S. E.
Franzoni, Cecilia.....	D. C.....	605 I Street.
Frisby, Florence E .....	D. C.....	1607 31st Street.
Fuller, Charles Franklin.....	D. C.....	612 L Street, N. E.
Fuller, Hubert Bruce.....	Conn....	1615 Florida Ave.
Gillis, W. Weir.....	Wyo ....	1454 R. I. Avenue.
Green, G. Emery. ....	Mass ....	1123 17th Street.
Hance, Eleanor Wilson.....	Va .....	Cherrydale, Va.
Harlan, Rolvix. ...	Md.....	1229 10th St., S. E.
Haws, Samuel Nathaniel.....	Tenn....	314 E Street.
Hobgood, Mary Lucretia.....	La .....	1946 2d Street.
Hobson, Alphonso A .....	Md.....	407 T Street.
Hoskins, Etta Louise.....	Mich....	301 C Street, S. E.
Keller, Charles B.....	N. Y....	*1122 G Street, S. E.
Knight, Evelyn E.....	D. C.....	1106 Md. Ave., S.W.
Leach, Boynton McConnell.....	D. C.....	1300 I Street.
Lee, Helen. ....	Me.....	1735 17th Street.
Lindsey, Melville Wilmer.....	Va ....	Alexandria, Va.
Lynch, Sara P.....	D. C.....	Brookland, D. C.
Manning, William Saunders.....	D. C.....	1511 R. I. Ave.
Mason, Selma M.....	Va .....	1827 H Street.
Matson, John Warren .....	Md. ....	Berwyn, Md.
Maynard, Colton .....	D. C.....	1407 15th Street.
McGroarty, Lucina Frances .....	Ala. ....	210 5th Street, N. E.
McKelden, Alice Madeleine.....	D. C.....	724 5th Street, N. E.
McWhorter, Robert Ligon, Jr....	Ga .....	1301 Yale Street.
Moore, Rolland Bryant.....	Conn....	927 N. Y. Ave.
Newlands, Frances Clara .....	Nev.....	Chevy Chase, Md.
Norris, Etheldreda Lord .....	N. J.....	417 Spruce Street.
Parkinson, Elsie Elizabeth.....	Mich....	806 9th Street, N. E.
Parkman, Mrs. Josephine Bettes.	Mass ....	817 12th Street.
Parson, Artley Beeber .....	D. C.....	309 N. J. Ave., S. E.
Peelle, Stanton C .....	D. C.....	The Concord.
Randolph, Frances Howell.....	D. C.....	1501 R Street.

Name.	State.	Address.
Ray, Preston Blair.....	Md.....	Forest Glen, Md.
Raybold, George Irving.....	D. C.....	820 N. C. Ave., S. E.
Reinke, Lottie.....	Texas ...	610 C Street, N. E.
Robinette, Rosalie A.....	Pa... ..	301 Md. Ave., N. E.
Robinson, Nathaniel E., Jr.....	D. C.....	Brightwood, D. C.
Sanders, Frances... ..	D. C.....	629 S Street.
Shallenberger, Josephine Power.	Pa.....	906 East Capitol St.
Sherman, John, Jr.....	D. C.....	Cleveland Pk., D.C.
Slaybaugh, George Eldred.....	Pa.....	1502 R Street.
Smith, Flora Warren.....	Md. ....	Kensington, Md.
Smith, Harry Bradley.....	D. C.....	314 A Street, N. E.
Smith, Ina Augusta.....	Vt.....	1401 31st Street.
Smith, Nella Marguerite.....	Ohio ....	1255 23d Street.
Somers, Will Royal.....	Canada..	704 3d Street.
Sperry, Paul.....	D. C.....	321 Del. Ave., N. E.
Sterrett, Douglas B.....	D. C.....	Springland, D. C.
Sterrett, William Dent.....	D. C.....	Springland, D. C.
Stewart, Marshall Bowyer.....	D. C.....	1400 Mass. Avenue.
Stuart, W. G.....	D. C.....	1244 8th Street.
Taggart, Hugh T., Jr.....	D. C.....	2249 N Street.
Thönssen, Pearl Edna.....	D. C.....	1523 5th Street.
Turner, M. Elsie.....	D. C.....	414 B Street, N. E.
Underwood, Norman.....	D. C.....	1407 10th Street.
Whitney, Carl E.....	N. Y....	736 3d Street.

*Special Students.*

Bond, Reford.....	I. T.....	1012 17th Street.
Botkin, Alice Sinclair.....	Mont....	1623 H Street.
Dart, Ruth D.....	Conn....	1416 R. I. Avenue.
Faris, George M.....	Ind.....	208 A Street, S. E.
Finney, May S. ....	Kan.....	33 Florida Avenue.
Gambrell, Pauline Phillips .....	Texas ...	The Savoy.
Griffith, G. Berkeley.....	D. C.....	1630 R. I. Avenue.
Harrison, Jeff La Fayette.....	Texas ...	13 E Street.
Henderson, F. N.....	Md.....	Rockville, Md.
Larcombe, Rev. James A.....	Md.....	Seabrook, Md.
Main, Charles W.....	D. C.....	1617 17th Street.
Monroe, Gustavus Lane, Jr.....	Miss.....	1115 R. I. Avenue.
Muir, Edna A.....	Pa .....	512 3d Street.



Name.	State.	Address.
Richards, Mary Bergman.....	D. C.....	101 Mass. Avenue.
Rider, Ellen Thompson.....	D. C.....	1352 B Street, S.W.
Sherman, E. Lillian .....	D. C.....	Cleveland Pk., D. C.
Spear, Edwin E.....	D. C.....	2650 14th Street.
Swartwout, Harriet Mabel.....	Ill.....	400 Spruce Street.
Sykes, George.....	N. Y.....	1912 G Street.
Tayler, Lila.....	D. C.....	1411 Hopkins St.
Weaver, George A.....	D. C.....	208 Md. Ave., N. E.
Wiren, Aurora.....	Minn....	Brookland, D. C.
Wiren, Frances.....	Minn....	Brookland, D. C.
Wright, Matilda Douglas.....	D. C.....	225 13th Street, S.W.
Total.....		100

# THE CORCORAN SCIENTIFIC SCHOOL.

## THE FACULTY.

BENAIAH L. WHITMAN, D. D.,  
President.

HOWARD L. HODGKINS, PH. D.,  
Dean, and Professor of Mathematics.

CHARLES E. MUNROE, PH. D.,  
Professor of Chemistry.

REV. SAMUEL M. SHUTE, D. D.,  
Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,  
Professor of Geodesy.

THEODORE N. GILL, PH. D., LL. D.,  
Professor of Zoölogy.

CLEVELAND ABBE, A. M., LL. D.,  
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,  
Professor of German.

HARRY KING, LL. B.,  
Professor of Drawing.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology and Mineralogy.

ADOLPHUS W. GREELY,  
Professor of Geography.

JOSIAH PIERCE, JR., M. A.,  
Professor of Applied Geometry.

ANDREW F. CRAVEN, PH. D.,  
Professor of Economics.

LOUIS AMATEIS,  
Professor of Fine Arts as Applied to Architecture.

EDWARD FARQUHAR, PH. D.,  
Professor of History.

FRANK A. WOLFF, PH. D.,  
Professor of Physics and Electrical Engineering.

F. LAMSON-SCRIBNER, B. S.,  
Professor of Botany.

J. C. HORNBLLOWER,  
Professor of Architecture.

C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

HENRY SIMPSON,  
Associate Professor of Architecture.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

FELIX FREYHOLD, C. E.,  
Professor of Civil Engineering and Applied Mathematics.

MARATHON M. RAMSEY, A. M.,  
Professor of Romance Languages.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English, and Secretary of the Faculty.

AINSWORTH R. SPOFFORD, LL. D.,  
Professor of Library Science.

ALBERT M. HILLIKER, B. D.,  
Professor of Philosophy.

HERBERT L. RICE, M. S.,  
Professor of Astronomy.

## THE COLUMBIAN UNIVERSITY.

CHARLES W. DOWNING, A. M.,  
Professor of Latin.

GUSTAV AYRES, M. E.,  
Acting Professor of Mechanical Engineering.

WILBUR F. DALES, PH. D.,  
Assistant Professor of Latin and Greek.

W. EDWIN PRIEST,  
Assistant Professor of History.

PETER FIREMAN, PH. D.,  
Assistant Professor of Organic Chemistry.

THOMAS J. D. FULLER, B. S.,  
Assistant Professor of Architecture.

HENDERSON PRESNELL,  
Assistant Professor of Library Science.

WILLIAM P. CUTTER, B. S.,  
Assistant Professor of Library Science.

DOMINGO A. USINA, C. E.,  
Assistant Professor of Applied Mathematics.

HENRY A. PRESSEY, B. S.,  
Assistant Professor of Civil Engineering.

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INSTRUCTORS AND ASSISTANTS.

EMIL H. MEYER,  
Instructor in Fine Arts.

T. W. STANTON, PH. D.,  
Instructor in Paleontology and Stratigraphical Geology.

CLEVELAND ABBE, JR., PH. D.,  
Instructor in Physiography.

HARRY T. NEWCOMB, LL. M.,  
Instructor in Statistics.

ERNEST L. THURSTON, C. E.,  
Instructor in Mechanical Drawing.

EDWARD A. MUIR, B. S.,  
Instructor in Machine Drawing.

H. GRANT HODGKINS, A. B.,  
Instructor in Mathematics.

CHARLES E. McNABB, LL. M.,  
Instructor in Business Law.

RAYMOND SAYER,  
Instructor of the Perspective Class.

MINOTT E. PORTER, B. S.,  
Assistant in Geography.

A. KLAKRING,  
Assistant in Topographic Drawing.

THOMAS A. WILLIAMS, M. A.,  
Assistant in Botany.

FRED F. REISNER, E. E.,  
Assistant in the Physical Laboratory.

JULES MAILLET,  
Assistant in French.

Z. V. SPINOZA,\*  
Assistant in Spanish.

REED P. CLARK, A. B.,  
Assistant in French.

CHARLES S. HYDE, A. M.,  
Assistant in German.

WINTER F. BOWEN,  
Assistant in Assaying.

FREDERICK C. JONES, B. S.,  
Assistant in Chemistry.

CHRISTIAN G. STORM, B. S.,  
Assistant in Chemistry.

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\* Absent on leave.

## LECTURERS.

OTIS T. MASON, PH. D., LL. D.,  
Lecturer on Anthropology.

THOMAS M. CHATARD, PH. D.,  
Lecturer on Chemical Engineering.

GLENN BROWN,  
Lecturer on Sanitary Engineering.

CARROLL D. WRIGHT, LL. D.,  
Lecturer on Social Statistics.

LESTER F. WARD, A. M., LL. D.,  
Lecturer on Sociology.

CABELL WHITEHEAD, PH. D.,  
Lecturer on Metallurgy.

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STANDING COMMITTEES OF THE FACULTY.*Committee on Advanced Standing.*

The DEAN, the SECRETARY, and Professor MERRILL.

*Committee on Library.*

Professors FARQUHAR, CUTTER, and PRESSNELL.

*Committee on Examination Schedule.*

Professors RAMSEY, WILBUR, and FREYHOLD.

The School of Science is called the Corcoran Scientific School in grateful recollection of the many benefactions of W. W. Corcoran to the University.

The exercises of the School begin Wednesday, September 27, 1899, and are held in University Hall (southeast corner of Fifteenth and H Streets, N. W.), which is constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the full courses of study leading to the degree of

Bachelor of Science, as described below, or they may take special courses in any of the departments.

Candidates for admission to the Freshman Class should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free-hand and Mechanical Drawing.

The following courses of study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements:

## COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

### *Freshman Year.\**

(Common to all Courses.)

- |   |  |
|---|--|
| †(3) Chemistry, 1.<br>General Chemistry.                    | (1) Fine Arts, 1.<br>Free-hand Drawing.      |
| (2) Drawing, 1.<br>Mechanical and Geomet-<br>rical Drawing. | (2) Romance Languages, 1.<br>French.         |
| (3) English, 1, 4.<br>Rhetoric; English Lit-<br>erature.    | (5) Mathematics, 1, 2.<br>Algebra; Geometry. |

### COURSE I—GENERAL.

#### *Sophomore Year.*

- |   |   |
|---|---|
| (2) German, 1.<br>(3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. | (2½) Mineralogy, 1.<br>Descriptive Mineralogy.<br>(3) Physics, 1.<br>General Physics. |
|---|---|
- Elective, eight hours a week.

\*Students in Course XI will take Course 2 in Fine Arts (Architectural Drawing) in addition to the above.

†The numbers in parentheses give the number of hours or periods per week. The numbers following the subjects refer to the special topics in the various Departments of the Corcoran Scientific School.

*Junior Year.*

- |                 |                |
|-----------------|----------------|
| (2) Geology, 1. | (2) German, 2. |
|-----------------|----------------|

Systematic Geology.

Elective, thirteen hours a week.

*Senior Year.*

- |                   |                    |
|-------------------|--------------------|
| (2) Astronomy, 1. | (2) Philosophy, 1. |
|-------------------|--------------------|

General Astronomy.

Logic.

Elective, thirteen hours a week.

## COURSE II—IN CIVIL ENGINEERING.

*Sophomore Year.*

- |   |   |
|---|---|
| (4) Applied Mathematics, 1.                           | (2) German, 1.  |
| Descriptive Geometry<br>and Constructive Exercises.   | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (6) Engineering, 1, 6.<br>Surveying and Construction. | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (1) Fine Arts, 2.<br>Architectural Drawing.           | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |  |
|---|--|
| (6) Applied Mathematics, 3, 6.<br>Mechanics; Graphical<br>Statics and Constructive Exercises. | (2) German, 2.   |
| (2) Geology, 1.<br>Systematic Geology.  | (6) Engineering, 3, 5.<br>Field-work; Water Supply, etc. |
|   | (2) Mathematics, 5.<br>Calculus.                         |

*Senior Year.*

- |   |                                       |
|---|---------------------------------------|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials.                       | (1) Geodesy (1 term).                 |
| (2) Astronomy, 1.<br>General Astronomy.   | (1) Mathematics, 7.<br>Least Squares. |
| (1) Chemistry, 14.<br>Metallurgy of Iron.   | (2) Philosophy, 1.<br>Logic.          |
| (8) Engineering, 4, 7, 8.<br>Structures; Materials of<br>Engineering; Constructive Exercises. |                                       |



## COURSE III—IN ELECTRICAL ENGINEERING.

*Sophomore Year.*

- |   |  |
|---|--|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (5) Mechanical Engineering,<br>2, 5.                             |
| (2) German, 1.  | Machine Drawing; Ele-<br>mentary Kinematics.                     |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                    |
|   | (6) Physics, 1, 9.<br>General Physics; Phys-<br>ical Laboratory. |

*Junior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (4) Mechanical Engineering, 4.<br>Advanced Drawing.    |
| (2) Geology, 1.<br>Systematic Geology.               | (9) Physics, 2, 3, 10, 14.<br>Electricity; Laboratory. |
| (2) German, 2.                                       |  |
| (2) Mathematics, 5.<br>Calculus.                     |  |

*Senior Year.*

- |   |   |
|---|---|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials. | (2) Philosophy, 1.<br>Logic.  |
| (2) Astronomy, 1.<br>General Astronomy.                                 | (11) Physics, 4, 5, 6, 12, 14.<br>Theory and Application of<br>Electricity; Advanced<br>Laboratory; Inspection. |
| (1) Chemistry, 14.<br>Metallurgy of Iron.                               |   |
| (2) Mechanical Engineering, 10.<br>Prime Movers.                        |   |

## COURSE IV—IN MECHANICAL ENGINEERING.

*Sophomore Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry. | (5) Mechanical Engineering,<br>2, 5.         |
| (4) Chemistry, 3.<br>Laboratory (first term).        | Machine Drawing; Ele-<br>mentary Kinematics. |

- |                        |                                  |
|------------------------|----------------------------------|
| (2) German, 1.         | ( $\frac{3}{4}$ ) Mineralogy, 1. |
| (3) Mathematics, 3, 4. | Descriptive.                     |
| Trigonometry; Analytic | (3) Physics, 1.                  |
| Geometry.              | General Physics.                 |
|                        | ( $\frac{1}{2}$ ) Physics, 9.    |
|                        | Laboratory (second term).        |

*Junior Year.*

- |                                |                                |
|--------------------------------|--------------------------------|
| (3) Applied Mathematics, 3, 6. | (8) Mechanical Engineering, 3, |
| Analytical Mechanics;          | 6, 7.                          |
| Graphical Statics.             | Machine Drawing; Ther-         |
| (2) Geology, 1.                | modynamics; Graph-             |
| Systematic Geology.            | ical Dynamics.                 |
| (2) German, 2.                 | (6) Physics, 2, 3, 11.         |
| (2) Mathematics, 5.            | Electricity; Labor atory.      |
| Calculus.                      |                                |

*Senior Year.*

- |                                |                                 |
|--------------------------------|---------------------------------|
| (3) Applied Mathematics, 4, 5. | (13) Mechanical Engineering, 8, |
| Hydraulics; Strength of        | 9, 10, 11, 12.                  |
| Materials.                     | Kinematics; Machine De-         |
| (2) Astronomy, 1.              | sign; Prime movers;             |
| General Astronomy.             | Laboratory; Inspe-<br>ction.    |
| (1) Chemistry, 14.             | (2) Philosophy, 1.              |
| Metallurgy of Iron.            | Logic.                          |

## COURSE V—IN CHEMISTRY (A).

*Sophomore Year.*

- |                             |                                  |
|-----------------------------|----------------------------------|
| (2) Applied Mathematics, 2. | (1) Mechanical Engineering, 1.   |
| Descriptive Geometry.       | Machine Drawing.                 |
| (5) Chemistry, 2.           | ( $\frac{3}{4}$ ) Mineralogy, 1. |
| Laboratory; General         | Descriptive Mineralogy.          |
| Principles.                 | (3) Physics, 1.                  |
| (2) German, 1.              | General Physics.                 |
| (3) Mathematics, 3, 4.      |                                  |
| Trigonometry; Analytic      |                                  |
| Geometry.                   |                                  |

*Junior Year.*

- |                       |                     |
|-----------------------|---------------------|
| (15) Chemistry, 4.    | (2) Geology, 1.     |
| Qualitative Analysis. | Systematic Geology. |
|                       | (2) German, 2.      |

*Senior Year.*

- |                              |                    |
|------------------------------|--------------------|
| (16) Chemistry, 5, 7, 9, 14. | (2) Astronomy, 1.  |
| Quantitative Analysis;       | General Astronomy. |
| Assaying; Organic            | (2) Philosophy, 1. |
| Chemistry; Metallurgy        | Logic.             |
| of Steel.                    |                    |

## COURSE VI—IN CHEMISTRY (B).

*Sophomore Year.*

- |                             |                         |
|-----------------------------|-------------------------|
| (2) Applied Mathematics, 2. | (3) Mathematics, 3, 4.  |
| Descriptive Geometry.       | Trigonometry; Analytic  |
| (5) Chemistry, 2.           | Geometry.               |
| Laboratory; General         | (3) Mineralogy, 1.      |
| Principles.                 | Descriptive Mineralogy. |
| (2) German, 1.              | (3) Physics, 1.         |
|                             | General Physics.        |

*Junior Year.*

- |                       |                     |
|-----------------------|---------------------|
| (12) Chemistry, 4.    | (2) Geology, 1.     |
| Qualitative Analysis. | Systematic Geology. |
| (2) Mathematics, 5.   | (2) German, 2.      |
| Calculus.             | (3) Physics, 2, 3.  |
|                       | Electricity.        |

*Senior Year.*

- |                           |                         |
|---------------------------|-------------------------|
| (2) Astronomy, 1.         | (2) Mathematics, 6, 7.  |
| General Astronomy.        | Differentials and Least |
| (13) Chemistry, 5, 9, 14. | Squares.                |
| Quantitative Analysis;    | (2) Philosophy, 1.      |
| Organic Chemistry;        | Logic.                  |
| Metallurgy of Steel.      |                         |

## COURSE VII—IN MATHEMATICS.

*Sophomore Year.*

- |  |   |
|--|---|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry. | (2) German, 1.  |
| (2) Civil Engineering, 1.<br>Surveying.              | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Drawing, 2.<br>Topographical Drawing.            | (2) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) Romance Languages, 2.<br>French.                 | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) History, 1.<br>American.  |
| (2) Romance Languages, 3.<br>French.                 | (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three Di-<br>mensions. |
| (2) Geology, 1.<br>Systematic Geology.               | (3) Physics, 2, 3.<br>Electricity.  |
| (2) German, 2.                                       |   |

*Senior Year.*

- |  |   |
|--|---|
| (3) Applied Mathematics, 4, 5.   | (2) Philosophy, 1.  |
| (4) Astronomy, 1, 2.<br>General and Mathemat-<br>ical Astronomy.   | Logic.  |
| (1) Geodesy, 1.  | (3) Physics, 4, 7.<br>Mathematical Theory of<br>Electricity; Mathemat-<br>ical Physics. |
| (2) German, 3.   |   |
| (4) Mathematics, 6, 7, 11, 12.<br>Differential Equations;<br>Least Squares; Theory<br>of Equations; History<br>of Mathematics. |   |

## COURSE VIII—IN METEOROLOGY.

*Sophomore Year.*

- |  |                                       |
|--|---------------------------------------|
| (2) Applied Mathematics, 2.<br>Descriptive Geometry. | (2) Meteorology, 1.<br>Observational. |
|--|---------------------------------------|

- |   |   |
|---|---|
| (5) Chemistry, 2 or 3.<br>Laboratory.                         | (4) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.           |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |  |                                     |
|--|-------------------------------------|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) German, 2.                      |
| (2) Botany, 1.<br>Structural and System-<br>atic.    | (2) Mathematics, 5.<br>Calculus.    |
| (2) Geology, 1.<br>Systematic Geology.               | (2) Meteorology, 2.<br>Climatology. |
|  | (3) Physics, 9.<br>Laboratory.      |

*Senior Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 4.<br>Hydraulics.               | (2) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |
| (2) Astronomy, 1.<br>General and Spherical<br>Astronomy. | (2) Meteorology, 3.<br>Special Topics.                              |
| (1) Geodesy.<br>Projections.                             | (2) Philosophy, 1.<br>Logic.  |
|  | (6) Physics, 11.<br>Laboratory.                                     |

## COURSE IX—IN GEOGRAPHY.

*Sophomore Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry. | (2) Geography, 1.<br>Physical.                                |
| (5) Chemistry, 2 or 3.<br>Laboratory.                | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Drawing, 2.<br>Topographic.                      | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) German, 1.                                       | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |                                    |
|---|------------------------------------|
| (2) Botany, 1.<br>Structural and System-<br>atic. | (2) Geography, 2.<br>Economic.     |
| (5) Engineering, 1, 2.<br>Surveying.              | (2) German, 2.                     |
| (2) Geology, 1.<br>Systematic Geology.            | (2) Mathematics, 5.<br>Calculus.   |
|   | (3) Physics, 2, 6.<br>Electricity. |

*Senior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 4.<br>Hydraulics. | (1) Geodesy.   |
| (2) Astronomy, 1.<br>General Astronomy.    | (2) Mathematics, 6, 7.<br>Differential Equations and<br>Least Squares. |
| (2) Philosophy, 1.<br>Logic.               | (2) Meteorology, 2.<br>Climatology.                                    |
| Elective, six hours per week.              |  |

## COURSE X—IN GEOLOGY AND MINERALOGY.

*Sophomore Year.*

- |  |   |
|--|---|
| (2) Botany, 1.<br>Structural and Systematic. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Civil Engineering, 1.<br>Surveying.      | (3) Mineralogy, 1, 2.<br>Descriptive and Determ-<br>inative.  |
| (2) German.                                  | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |   |
|---|---|
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) German.   |
| (2) Geology, 1.<br>Systematic Geology.      | (2) Mineralogy.<br>Determinative and Crys-<br>tallographic. |
|   | (2) Zoölogy, 1, 2.  |

*Senior Year.*

- |   |                              |
|---|------------------------------|
| (2) Astronomy, 1.<br>General Astronomy. | (2) Philosophy, 1.<br>Logic. |
|---|------------------------------|

- (2) Drawing, 2.  
Topographical Drawing.
- (2) Economics, 6.  
Political Economy.
- (2) Geology, 2.  
Applied Geology.
- (1) Meteorology, 2.  
General Climatology.
- (2) Paleobotany.
- (2) Paleozoölogy.
- (2) Special Lectures on Rock-  
weathering and Sedimen-  
tation, Field Methods, etc.

## COURSE XI—IN ARCHITECTURE.

*Sophomore Year.*

- (4) Applied Mathematics, 1.  
Descriptive Geometry.
- (14) Architecture, 1, 4, 5, 10.  
History of Architecture;  
Architectural Drawing  
and Design; Building  
Construction.
- (6) Fine Arts, 3.  
Drawing, etc.
- (2) German, 1.
- (3) Mathematics, 3, 4.  
Trigonometry; Analytic  
Geometry.
- (4) Mineralogy, 1.  
Descriptive Mineralogy.
- (3) Physics, 1.  
General Physics.

*Junior Year.*

- (4) Applied Mathematics, 3, 6.  
Mechanics; Graphic Stat-  
ics (one term).
- (16) Architecture, 2, 6, 11, 12.  
History of Architecture;  
Architectural Design;  
Building Materials;  
Specifications.
- (6) Fine Arts, 4.  
Drawing, etc.
- (2) Geology, 1.  
Systematic Geology.
- (2) German, 2.
- (2) Mathematics, 5.  
Calculus.

*Senior Year.*

- (2) Applied Mathematics, 5.  
Strength of Materials.
- (15) Architecture, 3, 7, 8, 9, 13.  
History of Architecture;  
Architectural Design;  
Building Materials;  
Sanitary Science;  
Thesis.
- (2) Astronomy, 1.  
General Astronomy.
- (2) Economics, 1.  
Business Law.
- (6) Fine Arts, 5.  
Drawing, etc.
- (2) Philosophy, 1.  
Logic.

## COURSE XII—IN ECONOMICS.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Economics, 1.<br>Business Law.                            | (1) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) Geography, 1.<br>Physical.                                | (3) Physics, 1.<br>General Physics.           |
| (2) German, 1.  | (2) Romance Languages, 2.<br>French.          |
| (2) History, 1.<br>American.                                  |   |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |  |   |
|--|---|
| (6) Economics, 2, 3, 5.<br>Finance; Politics and<br>Administration; Eco-<br>nomic Development. | (2) German, 2.<br>(2) History, 2.<br>Ancient History. |
| (2) Geography, 2.<br>Economic.   | (2) Philosophy, 2.<br>Psychology.                     |
| (2) Geology, 1.<br>Systematic Geology.   | (2) Zoölogy, 1, 2.                                    |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.                                   | (2) German, 4.<br>(4) History, 3, 5.<br>Mediæval; English. |
| (2) Botany, 1.<br>Structural and System-<br>atic.                         | (2) Philosophy, 1.<br>Logic.                               |
| (6) Economics, 4, 6, 7.<br>Statistics; Political Econ-<br>omy; Sociology. |  |

## COURSE XIII—IN LANGUAGE AND LITERATURE.

*Sophomore Year.*

- |                                   |   |
|-----------------------------------|---|
| (2) English, 2.<br>English Prose. | (1) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.                    | (3) Physics, 1.<br>General Physics.           |
| (2) Greek, 3; or Latin, 4.        |   |



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|---|--|
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. | (4) Romance Languages, 2, 7.<br>French; Spanish. |
|---|--|

*Junior Year.*

- |   |  |
|---|--|
| (3) English, 5, 6, and 3 or 9.<br>Spenser and Milton;<br>American Literature;<br>and English Composi-<br>tion or Old English. | (2) Greek, 4; or Latin, 5.<br>(2) History, 1.<br>American.<br>(6) Romance Languages, 3, 8,<br>10.<br>French; Spanish; Italian. |
| (2) Geology, 1.<br>Systematic Geology.  |  |
| (2) German, 2.  |  |

*Senior Year.*

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Greek, 5; or Romance Lan-<br>guages, 11. |
| (2) English, 7, 8.<br>Shakespeare.       | (2) Latin, 6; or Geography, 1.               |
| (2) German, 3.                           | (2) Philosophy, 1.<br>Logic.                 |
| (4) History, 2, 3.<br>Ancient; Mediæval. | (2) Romance Languages, 4.<br>French.         |

## COURSE XIV—IN LIBRARY SCIENCE.

*Sophomore Year.*

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|--|---|
| (3) English, 2, 3.<br>English Prose; English<br>Composition.   | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) French, 2.   | (2) Mineralogy, 1.<br>Descriptive.                            |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.                           |
| (7) Library Science, 1, 2, 3, 4, 5.<br>Cataloguing; Accession;<br>Classification; Admin-<br>istration. |   |

*Junior Year.*

- |   |  |
|---|--|
| (2) English, 5, 6.<br>Spenser and Milton;<br>American Literature. | (5) Library Science, 6, 7, 8, 9.<br>Administration; Ad-<br>vanced Cataloguing. |
| (2) French, 3.  | (2) Romance Languages, 7.<br>Spanish.  |
| (2) German, 2.  | (2) Zoölogy, 1; or History.  |
| (2) Geology, 1.<br>Systematic Geology.                            |  |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.   | (2) Philosophy, 1.<br>Logic.           |
| (2) Botany, 1; or History.  | (2) Romance Languages, 10.<br>Italian. |
| (5) Chemistry, 2 or 3; or Physics, 9.<br>Laboratory.  |  |
| (6) Library Science, 10, 11, 12, 13, 14.<br>Bibliography; History of Libraries; Reference Work; Thesis. |  |

## COURSE XV—IN PHYSICS AND MATHEMATICS.

*Sophomore Year.*

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|---|---|
| (3) Applied Mathematics, 1.<br>Descriptive Geometry.                  | ( $\frac{3}{2}$ ) Mineralogy, 1.<br>Descriptive Mineralogy.     |
| ( $\frac{3}{2}$ ) Chemistry, 3 (first term).<br>Qualitative Analysis. | (3) Physics, 1.<br>General Physics.                             |
| (2) German, 1.  | ( $\frac{3}{2}$ ) Physics, 9 (second term).<br>Laboratory Work. |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic Geometry.            | (2) Romance Languages, 2.<br>French.                            |

*Junior Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 3.<br>Mechanics.  | (9) Physics, 2, 7, 11.<br>Mathematical Theory of Electricity; Mathematical Physics; Advanced Laboratory Work. |
| (2) Geology, 1.<br>Systematic Geology.   |   |
| (2) German, 2.   |   |
| (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants; Quaternions; Analytic Geometry of Three Dimensions. |   |

*Senior Year.*

- |                         |                            |
|-------------------------|----------------------------|
| (2) Astronomy, 1.       | (11) Physics, 4, 7, 8, 13. |
| General Astronomy.      | Advanced Mathematical      |
| (2) German, 3.          | Theory of Electricity;     |
| (3) Mathematics, 6, 7.  | Mathematical Physics;      |
| Differential Equations; | Physical Chemistry;        |
| Least Squares.          | Advanced Laboratory        |
| (2) Philosophy, 1.      | Work.                      |
| Logic.                  |                            |

## PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
	Politics, 4.15-5.15. Ancient History, 4.30-5.30. Modern History, 4.15-6.00.	Statistics, 4.15-5.15.	Sociology, 4.15-5.15.
6 to 7	Analytic Geometry. Geology. Kinematics. Masonry. Rhetoric.	American History. Architectural Draw- ing. Botany III. Chemical Laboratory. Electrical Laboratory.	Biblical Literature. Descriptive Geom- etry. Elementary Elec- tricity. English Literature. German III.
	Technical Elec- tricity. Trigonometry.	Elementary Elec- tricity. English Composition.  French II. French V. Least Squares. Logic. Organic Chemistry. Physical Laboratory. Zoölogy.	Prime Movers. Spanish I.  Water Supply.
7 to 8	American Litera- ture. Building Construc- tion. Business Law. Calculus.	Architectural Draw- ing. Astronomy. Botany I. Chemical Laboratory	Chemistry. German II. Latin III. New Testament Greek.
	Chemistry. Greek I. Kinematics. Library Science XII. Mineralogy. Psychology. Spanish III. Technical Elec- tricity.	Differential Equa- tions. Economic Develop- ment. Electrical Laboratory. English Prose. French I. French VI. Library Science III. Physical Laboratory. Surveying.	Physics. Shakespeare. Spanish III. Strength of Mate- rials.

**RECITATIONS AND LECTURES, 1899-1900.**

THURSDAY.	FRIDAY.	SATURDAY.
Politics, 4.15-5.15. Mediæval History, 4.15-5.15.	Statistics, 4.15-5.15. Ancient History, 4.30-5.30. Mediæval History, 4.15-5.15.	Sociology, 4.15-5.15.
American History. Analytic Geography.  Chemistry.  Elementary Electricity.  Hebrew.  Logic.  Trigonometry.  Zoölogy.	Analytic Geometry. Geology.  German III.  Prime Movers.  Rhetoric.  Trigonometry.	Electrical Laboratory. Geography.  Latin V.  Machine Drawing.  Mechanical Drawing.  Meteorology.  Organic Chemistry.  Thermodynamics Topographical Drawing.
Astronomy.  Biblical Literature  Botany I. Business Law.  Calculus.  Library Science XI.  Mechanical Drawing.  Physics.  Topographical Drawing	Economic Development. Geometry.  Geometry (Plane). German II.  Hebrew.  Library Science I.  Mineralogy.  Psychology.  Shakespeare. Spanish II. Strength of Materials.	Electrical Laboratory.  Freehand Drawing.  Library Science I. Library Science IX.  Machine Drawing.  Physical Laboratory.  Thermodynamics.

## PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
8 to 9	Algebra.	Architectural Drawing.	Advanced Electricity.
	Algebra (Preparatory).	Building Construction.	French III.
	Greek V.	Chemical Laboratory.	German I.
	Library Science II.	Electrical Laboratory.	Latin I.
	Library Science XII.	Geometry.	Mechanics.
	Mechanics.	Geometry (Plane).	
	Metallurgy.	Hydrographic Engineering.	
	Old English.	Library Science IV.	
	Physics.	Machine Design.	
	Spanish II.	Physical Laboratory.	
		Political Economy.	
9 to 10	Advanced Electricity.	Algebra.	Building Construction.
	Descriptive Geometry.	Algebra (Preparatory).	Greek I.
	French VI.	Chemical Laboratory.	Hydrodynamics.
	Geometry (Plane).	Electrical Laboratory.	
	Latin II.	Finance.	
	Library Science X.	Machine Design.	
	Thermodynamics.	Physical Laboratory.	
		Railroad Engineering.	

The Laboratories and Drawing-rooms are open every evening.

Chemistry 2 and 3 (laboratory courses), Tuesday from 5 to 10 P. M.

The full course in Assaying occupies three evenings a week for three months.

**RECITATIONS AND LECTURES, 1899-1900.**

THURSDAY.	FRIDAY.	SATURDAY.
Advanced Electricity.	Algebra.	Electrical Laboratory.
Building Construction.	Algebra (Preparatory).	Library Science I.
Botany III.	American Literature.	Library Science IX.
Differential Equations.	Ethics.	Machine Drawing.
French I.	German I.	Physical Laboratory.
Geography.	Graphic Statics.	
Hydrographic Engineering.	Graphic Dynamics.	
Greek II.	Machine Design.	
Library Science III.	New Testament Greek.	
Library Science VII.	Political Economy.	
Library Science VIII.	Spanish I.	
Kinematics.		
Machine Drawing.		
Surveying.		
French II.	Building Construction.	Electrical Laboratory.
French V.	English Prose.	Machine Drawing.
Latin V.	French III.	Physical Laboratory.
Least Squares.	Finance.	
Library Science XIII.	Graphic Statics.	
Machine Drawing.	Graphic Dynamics.	
Railroad Engineering.	Latin I.	
Kinematics.	Machine Design.	

**DEPARTMENTS OF INSTRUCTION.****ANTHROPOLOGY.****DR. MASON, Lecturer.****APPLIED GEOMETRY.****PROFESSOR PIERCE, Head of Department.**

Courses of lectures supplementing the regular courses in Drawing and Engineering will be given in this department.

During the session of 1897-'98 the following lectures were given :

**Lecture I.—The Value of Maps.**

Foreign and American Surveys, their object and utility.

**Lecture II.—The Geometry of Maps.**

Elementary principles of projection and perspective applied in the construction and use of maps.

**Lecture III.—Scales of Publication.**

Limitations and uses of maps on different scales. Symbolic representation of details.

**Lecture IV.—The Representation of Relief on Maps.**

Topographical maps and models.

**Lecture V.—The Use of Contours.**

Geometry of contoured maps and bird's-eye views.

These lectures were designed to illustrate the importance of a general knowledge of the uses and limitations of maps to military and civil engineers, especially as preparatory to the study of methods of surveying. A loan collection of foreign and American maps was on exhibition during the course of the lectures.

**APPLIED MATHEMATICS.****PROFESSOR FREYHOLD, Head of Department.****ASSISTANT PROFESSOR USINA.**

1. Descriptive Geometry, two hours ; and Constructive Exercises, two hours.\*

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\* Unless otherwise stated, hours per week throughout the year.



2. Stereotomy, one hour, and Exercises. References: Warren, Adhémar.
3. Analytical and Applied Mechanics, two hours.
4. Hydrodynamics, Hydraulics, and Pneumatics, one hour.
5. Strength of Materials and Theory of Elasticity, two hours.
6. Graphical Statics, two hours; and Designing Exercises, two hours.

## ARCHITECTURE.

PROFESSOR HORNBLOWER, Head of Department.

ASSOCIATE PROFESSOR SIMPSON.

ASSISTANT PROFESSOR FULLER.

MR. BROWN, Lecturer on Sanitary Engineering.

1. History of Architecture. Egyptian, Assyrian, and Grecian. One hour.
2. History of Architecture. Grecian and Roman. One hour.
3. History of Architecture. Romanesque, Renaissance, and Gothic. One hour.
4. Architectural Drawing. A review of the orders, with details to a large scale; measured drawings of existing buildings; copies and enlargements of plans and working drawings. First term, Sophomore year.
5. Architectural Design. Elementary composition; eight problems or the equivalent. Second term, Sophomore year.
6. Architectural Design. Seven problems or the equivalent. Junior year.
7. Architectural Design. Six problems or the equivalent. First term, Senior year.
8. Thesis. An original design; a discussion of an architectural problem.
9. Sanitary Science. One hour, one term.
10. Building Construction. One hour, Sophomore year.
11. Building Materials and Construction. Two hours, Junior year.

12. Specifications. One hour, second term, Junior year.

13. Building Materials and Construction. Two hours, first term, Senior year.

14. Inspection of buildings erected or in course of erection.

The assigned problems in courses 4 to 8 will require not less than twelve hours' work a week from each student.

## ASTRONOMY.

PROFESSOR RICE, Head of Department.

1. General Descriptive Astronomy. Two hours. Young's General Astronomy, with occasional lectures.

Whenever circumstances permit, students will observe telescopic objects of interest, and also make the fundamental observations of practical Astronomy.

2. Mathematical and Theoretical Astronomy. Two hours. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. Course 2 presupposes a thorough training in Mathematics.

## BIBLICAL LITERATURE.

PROFESSOR POLLARD, Head of Department.

1. The Mosaic Legislation—a study in the laws and social customs of the Hebrews. Two hours, first term.

2. The Lyric Poetry of the Hebrews—a study in the nature and growth of the Psalter. Two hours, second term.

3. Hebrew Prophecy—with special emphasis upon the nature and growth of the Messianic idea. Two hours, first term.

4. The Wisdom Literature of the Hebrews—including a study of Proverbs, Job, Ecclesiastes, and Song of Songs. Two hours, second term.

5. The Life and Literature of the Hebrews during the Exile. One hour, first term.

6. Jewish History and Literature, after the Exile, including the interbiblical period. One hour, second term.

7. The Life and Times of Christ—studies in the Gospels and contemporaneous history. Two hours, first term.

8. The Life and Letters of Paul—studies in the development of Christianity during the first century. Two hours, second term.

9. The Hebrew Language—for beginners. Two hours.

10. The Hebrew Language. Readings in the Books of Samuel. Two hours.

11. The New Testament Greek. Readings in the Gospels and the Epistles. Two hours.

12. The History of the Bible as a Book. Its transmission from early days to the present time; influence of English versions upon modern life and letters. One hour.

## BOTANY.

PROFESSOR LAMSON-SCRIBNER, Head of Department.

MR. WILLIAMS, Assistant.

### 1. Structural and Systematic Botany.

The year is devoted to general organography, morphology, and the systematic relationships of flowering plants and the higher cryptogams, with brief outline reviews of the remaining groups. *Field excursions* are given whenever practicable, and the student is expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. Special attention is given to the larger and more difficult families of flowering plants, such as the graminæ, compositæ, and leguminosæ. The student is also instructed in the proper manner of collecting and preparing plants for the herbarium and directed in beginning the preparation of a local herbarium. Two hours.

Text-books: Bastin's College Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants; Britton and Brown, Flora of the Northern United States and Canada.

### 2. Histological and Physiological Botany.

The year is devoted to lectures and laboratory work in histol-

12. Specifications. One hour, second term, Junior year.

13. Building Materials and Construction. Two hours, first term, Senior year.

14. Inspection of buildings erected or in course of erection.

The assigned problems in courses 4 to 8 will require not less than twelve hours' work a week from each student.

## ASTRONOMY.

PROFESSOR RICE, Head of Department.

1. General Descriptive Astronomy. Two hours. Young's General Astronomy, with occasional lectures.

Whenever circumstances permit, students will observe telescopic objects of interest, and also make the fundamental observations of practical Astronomy.

2. Mathematical and Theoretical Astronomy. Two hours. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. Course 2 presupposes a thorough training in Mathematics.

## BIBLICAL LITERATURE.

PROFESSOR POLLARD, Head of Department.

1. The Mosaic Legislation—a study in the laws and social customs of the Hebrews. Two hours, first term.

2. The Lyric Poetry of the Hebrews—a study in the nature and growth of the Psalter. Two hours, second term.

3. Hebrew Prophecy—with special emphasis upon the nature and growth of the Messianic idea. Two hours, first term.

4. The Wisdom Literature of the Hebrews—including a study of Proverbs, Job, Ecclesiastes, and Song of Songs. Two hours, second term.

5. The Life and Literature of the Hebrews during the Exile. One hour, first term.

6. Jewish History and Literature, after the Exile, including the interbiblical period. One hour, second term.

7. The Life and Times of Christ—studies in the Gospels and contemporaneous history. Two hours, first term.

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10. The Hebrew Language. Readings in the Books of Samuel. Two hours.

11. The New Testament Greek. Readings in the Gospels and the Epistles. Two hours.

12. The History of the Bible as a Book. Its transmission from early days to the present time; influence of English versions upon modern life and letters. One hour.

## BOTANY.

PROFESSOR LAMSON-SCRIBNER, Head of Department.

MR. WILLIAMS, Assistant.

### 1. Structural and Systematic Botany.

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Text-books: Bastin's College Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants; Britton and Brown, Flora of the Northern United States and Canada.

### 2. Histological and Physiological Botany.

The year is devoted to lectures and laboratory work in histol-

ogy and physiology. The cutting of sections and staining and mounting of botanical objects is described and illustrated, and the student is instructed in the use of the compound microscope in botanical research. The vegetable cell and the various tissues entering into the structure of the higher plants are studied in detail, and the principles governing the phenomena of plant physiology are illustrated by experiments in the laboratory. Two hours.

Reference books: Goodale's *Physiological Botany*; Bessey's *College Botany*; Westermaier-Schneider, *A Compendium of General Botany*; Zimmerman-Humphrey, *Botanical Microtechnique*; Vines, *Lectures on the Physiology of Plants*.

### 3. Cryptogamic Botany.

This course includes lectures, reading, and laboratory on the structure, morphology, physiology, and biology of the cryptogams. Representatives of the various groups are studied in the laboratory, and field excursions are given for the purpose of collecting and studying the cryptogamic flora of the region. Special attention is given to fleshy fungi, parasitic fungi, bacteria, and fresh-water algæ. The student is instructed in the best methods of collecting and preparing these plants for preservation in the herbarium or laboratory for study, and is required to make a small collection of the local flora. Two hours.

Reference books: Bennett and Murray, *Cryptogamic Botany*; Bessey, *College Botany*; Vines, *A Student's Text-book in Botany*; and various monographic works on special groups.

NOTE.—Courses 2 and 3 will be given on alternate years, and must be preceded by course 1.

4. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor, provided that students in sufficient number present themselves.

## CHEMISTRY.

PROFESSOR MUNROE, Head of Department.

DR. CHATARD, Lecturer on Chemical Engineering.

DR. WHITEHEAD, Lecturer on Metallurgy.

DR. FIREMAN, Assistant Professor of Organic Chemistry.

MR. BOWEN, Assistant in Assaying.

MR. JONES, Assistant in Chemistry.

MR. STORM, Assistant in Chemistry.

1. General Chemistry, a series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's Remsen's, and Bloxam's Chemistries.

2. Laboratory Practice, a laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Five hours.

Text-book: Cooke's Laboratory Practice.

3. Preparation of and Study of the Properties of Chemical Substances. Five hours.

Text-books: Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

4. Qualitative Analysis, a laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius' Qualitative Analysis.

5. Quantitative Analysis, a laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius' Quantitative Analysis.

6. Technical Analysis and Industrial Processes, a lecture and laboratory course in which the elements of chemical engineer-

ing will be taught, and special attention will be given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Wagner's Chemical Technology, Allen's Commercial Organic Analysis.

7. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

8. History and Philosophy of Chemistry, an illustrated lecture course offered gratuitously to all students in the Department and given at irregular intervals.

9. Chemistry of the Carbon Compounds, a laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text-book: Gattermann's Practical Methods of Organic Chemistry.

10. Modern Methods of Iron and Steel Analysis, a laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

11. Chemistry of Explosive Substances, a laboratory and field-work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

12. Advanced course in Organic Chemistry, Bernthsen's Text-book of Organic Chemistry.

13. Lectures on the Principles of Analysis.

14. Metallurgy of Iron and Steel, a course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Medical School.

Special attention is paid in all courses to the methods of mak-



ing notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students will prepare a bibliography on some special topic.

Students must provide themselves in all the laboratory courses with note books, towels, suitable clothing, and the necessary equipment for the work. Apparatus and material are supplied by the University.

### CIVIL ENGINEERING.

PROFESSOR FREYHOLD, Head of Department.

ASSISTANT PROFESSOR PRESSEY.

1. Land and Topographical Surveying, with theory and use of instruments, two hours; Practical Exercises and Field-work in October, November, March, and April, four hours.

2. Railroad and Highway Engineering and Hydraulic Engineering (Canals, Rivers, and Harbors, Irrigation and Drainage), one hour, and Constructive Exercises, two hours.

3. Engineering Field-work and Railroad Surveying, two hours; field-work as in course 1.

4. Masonry, Wooden, and Steel Structures, two hours, and Constructive Exercises, two hours.

5. Water Supply, Sewerage, and Sanitary Engineering, one hour.

6. Elementary Construction, two hours; Constructive Exercises, two hours.

7. Modern Tall Buildings, and the use of iron and steel in buildings, one hour.

### DRAWING.

PROFESSOR KING, Head of Department and Lecturer on Mechanical Drawing.

MR. THURSTON, Instructor in Mechanical Drawing.

MR. KLAKRING, Assistant in Topographic Drawing.

1. Mechanical Drawing, a general course, designed also as a preparation for technical drafting:

- a. Elementary, geometrical, and graphical constructions.
- b. Simple elevations and plans.

- c. Elementary projections.
  - d. Developments; finding the true length of dimensions given in projections.
  - e. Elements of machines.
  - f. Sections.
  - g. Dimensioning.
2. Topographical Drawing, embracing:
- a. Technical lines.
  - b. Hypsographic expressions, including contours, hachures, and shading.
  - c. Topographic, cadastral, and public culture symbols.
  - d. Scales.
  - e. Projections.
  - f. Compilation.
3. Topographic Drawing as applied in Architecture.
4. Lettering as applied to Topographic, Architectural, and Mechanical Drawings.
5. Patent Office Drawing, special attention being given to the technical character of drawings required by the rules established by the U. S. Patent Office.

Each of these general courses will occupy two hours a week, and will be supplemented by practice.

## ECONOMICS.

PROFESSOR CRAVEN, Head of Department.

DR. WRIGHT, Lecturer on Statistics.

DR. WARD, Lecturer on Sociology.

MR. McNABB, Instructor in Business Law.

MR. NEWCOMB, Instructor in Statistics.

### 1. Business Law.

I.—Practical Business, Commercial and Banking Law:

(1.) Business Law in general:

Principles on which it rests.

(2.) The Law of Contracts:

a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.

b. Commercial Paper:

Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.

(3.) Descent and Distribution of Property:

Duties of Executors, Administrators, Trustees, Guardians, etc.

(4.) Business Forms and Practice. Two hours, 1899-1900.

II.—Civil Government in the United States considered as to its origins and developments. Two hours, 1900-1901.

2. Economic Development.

I.—The History of Economic Growth among Ancient, Mediæval, and Modern Peoples, down to A. D. 1500. Two hours, 1899-1900.

II.—Modern Industrial and Commercial Changes and Legislation since A. D. 1500. Two hours, 1900-1901.

3. Politics and Administration.

I.—Historical and Practical Politics—Rise and Growth of. Two hours, 1899-1900.

II.—The State; Theories and Forms of Government, Ancient and Modern. Two hours, 1900-1901.

4. Statistics and Transportation.

I.—Comparative: A numerical study of social relations, with particular regard to the population, industries, and commerce of the United States. It is the especial purpose of this course to familiarize the student with the methods of collection, classifying, tabulating, and analyzing statistical data followed in the decennial censuses of the United States and in other official investigations. Two hours, 1899-1900.

II.—Railway Transportation: History and Development of Railways. Theories of Rates, Combinations, State Ownership or Control. Two hours, 1900-1901.

## 5. Finance, History and Science of.

I.—Money, Coinage, Credit, and Banking; Government Paper, U. S. Moneys. Two hours, 1899-1900.

II.—Public Expenditure, Public Revenue, Taxation, Financial Administration, Budgets and Audits. Two hours, 1900-1901.

## 6. Political Economy.

I.—An Historical Introduction to the Study of Political Economy. Two hours, 1899-1900.

II.—The Principles of Economics. Two hours, 1900-1901.

## 7. Sociology.

I.—The Principles of Sociology. Two hours, 1900-1901.

II.—A Study of Individualism, Socialism, and of the Practical Social Problems of State and Municipal Administration in Respect to Sanitation, Charities, Crime, etc. Two hours, 1899-1900.

## ENGLISH.

PROFESSOR WILBUR, Head of Department.

Courses of study in the Department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

All of the English subjects are correlated with a view to consecutive study through four years: Freshman year, Courses 1, 4; Sophomore year, Courses 2, 3; Junior year, Courses 5, 6, 9; Senior year, Courses 7, 8. Freshman English is required in all courses of study leading to a degree. The Language and Literature Course requires English 2 in the Sophomore year; three hours a week of English in the Junior year, and two hours of English in the Senior year. The Library Science Course re-

quires English 2 and 3 in the Sophomore year, and English 5 and 6 in the Junior year.

*Rhetoric and Composition.*

1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books, *Practical Elements of Rhetoric*, Genung; *Handbook of Rhetorical Analysis*, Genung.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) A verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Freshmen. Two hours.

2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Two hours.

3. English Composition. (Text-book, *English Composition*, Wendell.) Practice in various forms of discourse and studies in style. This is an advanced course in English composition; it consists of themes, fortnightly essays, class studies, and lectures. One hour.

*Language and Literature.*

4. English Literature. The history and development of English Literature; a lecture course with illustrative readings from English authors. Members of the class are expected to read some standard work on the history of the literature. Freshmen. One hour.

5. Spenser and Milton. A comparative study of Elizabethan and Puritan Poetry. Two hours, first term.

6. American Literature. Growth and development of American Literature. Lectures in history and criticism; study of selected authors and the discussion of papers prepared by the class. Two hours, second term.

7. Shakespeare. The English Historical Plays: King John; King Richard II; King Henry IV, parts i, ii; King Henry V; King Henry VI, parts i, ii, iii; King Richard III; King Henry VIII. Two hours, first term.

8. Shakespeare. A group of selected plays studied comparatively. Two hours, second term.

9. Old English. Elementary course. (Text-books: *First Book in Old English*, Cook; *Exercises in Old English*, Cook). The essentials of the grammar and reading of selections from Old English texts. One hour.

## FINE ARTS AS APPLIED TO ARCHITECTURE.

PROFESSOR AMATEIS, Head of Department.

MR. MEYER, Instructor in Fine Arts.

MR. SAYER, Instructor of the Perspective Class.

1. Free-hand Drawing. One hour.
2. Architectural Drawing. (The five orders.) One hour.
3. Architectural and Ornamental Drawing. Six hours, Sophomore year.
4. Architectural and Ornamental Drawing. Six hours, Junior year.
5. Architectural and Ornamental Drawing. Six hours, Senior year.
6. Modeling.
7. Lectures on the History of Ornaments, Painting, and Sculpture.

The work in courses 3, 4, and 5 is so arranged as to illustrate architectural ornamentation and decoration discussed in the lectures on the history of architecture and to furnish skill and practice in the treatment of the assigned problems in architectural design.

Special attention is given to the study of the different styles in architecture and ornament.

The Free-hand class includes practice in landscape and figure, taught by means of pencil, pen, and wash, from drawings, from casts, or from nature.

The Perspective and Water-color class includes the study of

perspective and practice in water-color for students in Architecture.

Mr. Meyer and Mr. Sayer will make arrangements for special courses—lessons to be given during the day or the evening.

## GEODESY.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.

## GEOGRAPHY.

PROFESSOR GREELY, Head of Department.

MR. PORTER, Assistant.

The course of instruction includes Physical and Economic Geography. The methods followed embrace compilations, collations, and investigations by the students, and courses of lectures by the professor. The latest text-books are supplemented by the discussion of recent geographical data drawn largely from current scientific and statistical publications of the various Governmental bureaus in Washington.

I. Physical Geography: Two hours. Especial attention will be given to such parts of the earth as by fauna and flora, by mineral and vegetable deposits, or by other favoring physical conditions, either contribute most largely or promise future advantages to human welfare. Among other subjects will be considered the material influence of climatic conditions and geological formations as factors in the development of natural resources; modifications and extensions of fauna and flora by human or natural agencies; discoveries of mineral, vegetable, and other deposits; transference of centers of population, industries, and commerce; improvements of natural and creation of artificial transportation routes, and other similar physical features related to human activities.

II. Economic Geography: Two hours. The subjects specially studied bear on the most important factors connected with the development of agricultural and mineral resources, the extension and evolution of industrial methods, and their dependence on trade and commerce. The growth or decadence of the more important activities of countries or regions, transitions in industrial methods, modifications of commercial relations, the development of improved transportation routes, will be considered in their relation to each other and their effect on the future development of the world in general and the United States in particular.

## GEOLOGY AND MINERALOGY.

PROFESSOR MERRILL, Head of Department.

DR. STANTON, Instructor in Paleontology and Stratigraphical Geology.

### *Mineralogy.*

1. Descriptive Mineralogy. Two hours, first term.
2. Determinative Mineralogy. Four hours, second term.

### *Geology.*

1. Systematic Geology; Geognosy; Dynamical, Structural, and Stratigraphical Geology. Two hours. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock-weathering and Soils.

2. Economic Geology. Two hours. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration.

Mineralogy is taught as introductory to geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical, and includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection, showing the minerals not



merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

The course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock-formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under (first) mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (second) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

## GERMAN.

PROFESSOR SCHOENFELD, Head of Department.

MR. HYDE, Assistant.

1. Accurate training in elementary grammar; pronunciation and translation from English into German; exercise in conversation; readings from Andersen's *Bilderbuch ohne Bilder*, Storm's *Immensee*, and some easy German poetry. Two hours.

2. More extended course in German syntax and principal

difficulties of the language, idioms, etc. ; extensive translations into German ; Gore's Science Reader, fourth edition ; selected stories ; one or two classics. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache* ; special preparation for scientific professional work ; Helmholtz on Goethe's work in natural history (edition of Seidensticker) ; Gore's Du Bois-Raymond's *Rektoratsreden* ; critical studies of German classics ; lectures on German literature. Two hours.

4. A special course in German training for advanced students in the Historic and Economic Departments. Schoenfeld's *German Historical Prose* and the standard works of German historians and economists will be read. Two hours.

## GREEK.

### ASSISTANT PROFESSOR DALES.

1. Elementary Greek. The thorough mastery of the forms is the object of the first year's work. Constant practice is afforded in translating from Greek into English and from English into Greek. An outline of Greek syntax is acquired. During the latter part of the year the first book of the *Anabasis* is read. Text-books : White's *First Greek Book* ; Goodwin's *Anabasis*. Two hours.

2. First half year, *Anabasis*, Books ii and iii, accompanied by a more thorough study of syntax and review of forms. During the second half year the first three books of the *Iliad* are read, with some study of the origin and development of Epic poetry. Two hours.

3. First half year, further study of Epic Poetry, accompanied by the reading of a portion of the *Odyssey*. The second half year is devoted to Herodotus. A careful study of the dialect is made and some attention is paid to the origin and development of History. Two hours.

4. Greek Oratory. The origin and development of Oratory among the Greeks is fully traced and especial emphasis is placed upon its importance in any historical study of Greek style.

Selections from various orators, especially Lysias and Demosthenes, are read and discussed in class. Two hours.

5. Greek Drama. The work in this course is more advanced, and deals largely with matters literary and historical. Selections from Attic tragedy and comedy are read and discussed. Two hours.

All courses are accompanied by study in grammar and composition.

Courses 1 and 2 do not count for a degree.

## HISTORY.

PROFESSOR FARQUHAR, Head of Department.

ASSISTANT PROFESSOR PRIEST.

1. American History. Text-books: Eliot, Fiske, Johnston. Reference books: Bancroft, Adams, Von Holst, McMaster, Eggleston. Two hours.

2. Ancient History. Text-books: Myers' Eastern Nations and Greece; Allen's Roman People. Reference will be had to all available works on the subjects pursued.

Instruction will be given by lectures, with special reference to cause and effect and the great underlying principles of History. To vividly reproduce the life and thought of each age, with a tracing of the lessons and comparisons to be drawn from the same, will be the constant aim.

The connection of the subcourses—Egypt, Chaldæa, Assyria, Greece, and Rome—is such that new students can with advantage take up the course at any time in the year.

3. Mediæval History. Text-books: Myers, Bryce, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Text-book: Myers. Two hours.

5. English History. Text-books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.

6. Bible History. Lecture course. Reference books: Ancient History generally, with Edwald, Renan. Two hours.

Instruction in this department is given both by text-books and lectures. The method is rational and comparative rather than precise and mechanical; the course of human progress and development, the growth of institutions and civilization, receives more emphasis than separate facts. Essay-work is required. The unequalled facilities for historical research afforded by the Capital of the Nation are held in view of the classes.

## LATIN.

PROFESSOR DOWNING, Head of Department.

ASSISTANT PROFESSOR DALES.

1. Elementary Latin. A thorough drill in forms is given. This is facilitated by constant practice in translating from English into Latin and Latin into English. Text-book: Collar and Daniell's First Latin Book. During second term selections from Viri Romæ are read. Two hours.

2. Nepos and Cæsar. A thorough drill in syntax is given. Prose composition once a week. Two hours.

3. Selected Orations of Cicero. Careful study of periods of Cicero. Lectures on Roman Oratory. Two hours, first term.

Vergil. An effort is made through the study of versification and poetical usage to get an appreciation of the poetry of Vergil. Two hours, second term.

Prose composition throughout the year.

4. Cicero's De Senectute, Odes of Horace. Special attention is given to scansion. Several of the odes are memorized. Two hours, first term.

Livy. Books I and II, or XXI and XXII. Study of early history of Rome or of second Punic war. Two hours, second term.

Prose composition throughout the year.

5. Selected Letters of Pliny, Satires and Epistles of Horace. Those satires and epistles are read which best illustrate Horace and his time. Two hours, first term.

Tacitus, Germania and Agricola, Selected Letters of Cicero. Careful attention given to peculiarities of style of Tacitus. Prose composition. Two hours, second term.

6. Comedy. Plautus (Captivi), Terence (Phormio). Study of early Latin. Lectures on relation of Roman comedy to Greek comedy. Two hours, first term.

Lucretius, Selections. Brief study of the philosophy of the poem. Two hours, second term.

Courses 1, 2, and 3 do not count for a degree.

## LIBRARY SCIENCE.

PROFESSOR SPOFFORD, Head of Department.

ASSISTANT PROFESSOR PRESNELL.

ASSISTANT PROFESSOR CUTTER.

The course in Library Science was instituted in October, 1897, and during the year 1898-'99 twenty-six students have registered for the work. The intention is to provide such practical instruction as shall fit students for positions as librarians or library assistants, making the instruction thorough, and training pupils for habits of research, qualifying them for other equally advanced employments.

1. Elementary Cataloguing. Practice in cataloguing such books as will best illustrate the main features of cataloguing. Cards are returned to students after correction, and may be preserved. Lectures will be given on catalogue rules, on the different forms of printed and written catalogues, on methods of duplication, and on the mechanical accessories used. Two hours.

2. Accession Department Work. Inspection and purchase of books. Reception, checking bills, collation, preparation for shelves. Accessioning. Order slips, order and serial blanks. One hour.

3. Elementary Classification and Shelf Department Work. Lectures on classification systems and notations; on shelf arrangements, shelf-listing, and stock-taking. One hour.

4. Library Administration. Loan systems. Methods of registering borrowers; charging systems; delinquent notices, fines; interlibrary loans. One hour.

5. Typewriting. Two hours.

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4. Library Administration. Loan systems. Methods of registering borrowers; charging systems; delinquent notices, fines; interlibrary loans. One hour.

5. Typewriting. Two hours.

6. Library Administration. Accounts. Statistics of readers and reading, care of supplies, etc. One hour.

7. Library Administration. Care and preservation of books. Book-binding and repair or restoration. Injuries from heat, gas, damp, insects, thefts, mutilations, etc. Treatment of periodicals and pamphlets. One hour.

8. Library Administration. Rules, access to shelves, library advertising, librarian's reports, relations to trustees or library authorities; buildings, furniture and fittings, light, heat, and ventilation; selection of assistants, salaries, leave, hours, etc. One hour.

9. Advanced Cataloguing. Preparation of a dictionary catalogue on the most advanced plan. Finding lists and accession lists. Printed catalogues. Cataloguing rarities. Government publications. Two hours.

10. Bibliography. Universal, national, trade, and special bibliographies. Preparation of bibliographies and finding lists. Methods of citation and abbreviation. History of printing, paper, publishers, etc. Two hours.

11. History of libraries. American, foreign. Copyright, in relation to libraries and literature. Qualifications of a librarian. One hour.

12. Reference Work. Helps for reader and student. Reader's guides. Note-taking and indexing. Preparation of abstracts. Reading methods. Two hours.

13. The library and the public. Organization of libraries. Library commissions and legislation. Traveling libraries. Library associations. Uses of the library to the university, the common school, the citizen, the official. One hour.

14. Preparation of thesis. Each student will be expected to present a thesis which will show the ability to do independent work. The member of the faculty having the student under his instruction in the branch on which the thesis is written will render all needed assistance.

In each of the subjects in the course extra time may be required for the practice necessary to put the facts taught to use.



## MATHEMATICS.

PROFESSOR HODGKINS, Head of Department.

MR. HODGKINS, Instructor.

(A.) Elementary Algebra: Three hours. Bowser's College Algebra.

(B.) Plane Geometry: Three hours. Gore's Plane and Solid Geometry.

1. Algebra: Three hours. Bowser's College Algebra.

2. Geometry: Two hours. Gore's Plane and Solid Geometry.

3. Trigonometry: Three hours, first term. Crockett's Plane and Spherical Trigonometry.

4. Analytic Geometry: Three hours, second term. Bowser's Analytic Geometry.

5. Calculus: Two hours. Bowser's Calculus.

6. Differential Equations: Two hours. Johnson's Differential Equations.

7. Least Squares: Two hours, ten weeks.

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.

8. Determinants: Two hours, ten weeks. Weld's Determinants; Hannus' Determinants.

9. Quaternions: Two hours, ten weeks. Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: Two hours, ten weeks.

11. Theory of Equations: Two hours, ten weeks.

12. History of Mathematics.

Courses A and B are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 shall have studied plane geometry, and

through quadratic equations in algebra; but as a thorough and ready knowledge of these elements is essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, they serve as preparation for the advanced courses described under the Graduate School. Usually only three of these five courses will be given each year.

### MECHANICAL ENGINEERING.

PROFESSOR AYRES, Head of Department.

MR. MUIR, Instructor in Machine Drawing.

1. Machine Drawing. A general course in drafting-room practice. One hour, Sophomore year.

2. Machine Drawing. A course for mechanical and electrical engineering students (working drawings). Four hours, Sophomore year.

3. Machine Drawing. An advanced course for mechanical engineering students (assembly drawings, piping, and foundation plans, designing elementary machine parts). Four hours, Junior year.

4. Machine Drawing. An advanced course for electrical engineering students (assembly drawings, wiring, and connection diagrams, designing elementary parts of electrical machinery). Four hours, Junior year.

5. Elementary Kinematics. Two hours, second term, Sophomore year.

6. Thermodynamics. Three hours, Junior year.

7. Graphical Dynamics. Graphical methods applied to the dynamics of machinery. Two hours, second term, Junior year.

8. Kinematics. Four hours, Senior year.

9. Machine Design. Designing modern high-speed steam-engines. Four hours, Senior year.

10. Prime Movers. A comparative study of the steam-engine, gas-engine, air-engine, hydraulic motors, and other sources of power; elementary thermodynamics. Two hours, Senior year.

11. Laboratory Practice. Testing the strength of materials, calibration of instruments, indicator and brake tests of various prime movers, belt tests, etc. Three hours, Senior year.

12. Inspection of Power Plants and Machine Shops. In and about Washington are many plants which afford the student opportunity to familiarize himself with many types of motors, machines, and shop practices. Notes and sketches of machines and processes will be made and discussed later in class.

No manual training is afforded by this department. It is, however, considered essential for the future success of the student that he shall be familiar with the practical operations of the blacksmith, pattern-making, foundry, and machine shops. This end is sought, as far as practicable, in course 12 above; but the work of this course should be supplemented by further time spent in a shop of ample facilities.

The department lays main stress upon the designing and testing of machinery, considerable practice in which is given.

There is in the department a small but select library of reference on Mechanical Engineering, which the students are urged to use as much as possible. To this have been added a number of valuable books, pamphlets, drawings, etc., loaned by the professor.

For a description of the apparatus available for tests, see page 91.

## MENTAL AND MORAL PHILOSOPHY.

PROFESSOR HILLIKER, Head of Department.

1. Logic, Deductive and Inductive. Text-book: Jevons. The text-book work is aided by exposition and supplemented with lectures. In the second term's work in Induction, the instruction is chiefly by lectures, with references to Hamilton, Thomson, Whately, Mill, and Everett, and copious illustrations from the works of modern science. Two hours.

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The department lays main stress upon the designing and testing of machinery, considerable practice in which is given.

There is in the department a small but select library of reference on Mechanical Engineering, which the students are urged to use as much as possible. To this have been added a number of valuable books, pamphlets, drawings, etc., loaned by the professor.

For a description of the apparatus available for tests, see page 91.

## MENTAL AND MORAL PHILOSOPHY.

PROFESSOR HILLIKER, Head of Department.

1. Logic, Deductive and Inductive. Text-book: Jevons. The text-book work is aided by exposition and supplemented with lectures. In the second term's work in Induction, the instruction is chiefly by lectures, with references to Hamilton, Thomson, Whately, Mill, and Everett, and copious illustrations from the works of modern science. Two hours.

2. Psychology. It is the aim to make a candid study of mental phenomena and laws, without undue emphasis of attendant physiological processes or unwarranted assumption of rational implications. Special attention is given to the practical bearing of the results attained. The second term will be largely devoted to a study of the psychological foundations of education. Text-books: Halleck, Harris. Special references: Ladd, James, Titchener, Dewey. General references: Lotze, Wundt, Sully, Höffding. Two hours.

3. Ethics. The class study the text of Aristotle, Kant, Mill, and Spencer, and have outlined to them in lectures the other leading ethical systems. With the data thus gained, constructive work is done, Dewey and McKenzie being taken as guides. Two hours.

## METEOROLOGY AND ITS APPLICATIONS.

PROFESSOR ABBE, Head of Department.

ASSISTANT PROFESSOR MARVIN.

DR. ABBE, Instructor in Physiography.

The courses in Meteorology are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the lectures, the professor devotes one hour a week to a "quiz" class, in which, by questions and answers, he seeks to remove any difficulties that remain.

Physiography as a branch of Geology is assigned to the Department of Meteorology as being that special application of Climatology to Geology whereby the history of the formation of the surface of the earth is explained.

1. Observational Meteorology. Personal diary of the weather; general methods of observing without instruments; the rain gauge; the thermometer; the barometer; the nephoscope; the

anemometer; hygrometry; actinometry; self-registering apparatus; observations in balloons; observations on mountain stations; meteorological expeditions by land and sea; forms for record; methods of computation of means and normals; graphic methods of presenting results. Two hours.

2. General Climatology. Elements of climate; general distribution over the earth of sunshine, temperature, moisture, pressure, wind, clouds; diurnal, annual, and secular periodicities; variability of local climates; empirical relations between the winds and the other elements; the absorption of radiations by the atmosphere; the theory of probabilities as used in climatology; the computations of the coefficients of the Bessels-Fourier equation; the climatic features of areas of high and low pressure; the relations between ocean currents and the atmosphere; solar and lunar tides; the constituents of the atmosphere and their variations; atmospheric dust; atmospheric moisture; climatic characteristics of oceanic, continental, and littoral regions; sensible temperatures; constitution of the atmosphere as affected by plants, animals, altitudes, and the ocean; influence of snow, swamps, and forests. Two hours.

3. Special Subjects in Meteorology and Climatology. Optical phenomena; thermal phenomena; acoustic phenomena; electrical phenomena; climate and geology; climate and vegetation; climate and anthropology; climate and hygiene; climate and engineering; climate and manufacturing industries; atmospheric dust in relation to rain, geology, vegetation, hygiene, manufactures. Montgomery J. Storm's Steam-engine and Barus' Cloudy Condensations. The resistance of the atmosphere to projectiles. Two hours.

4. Physiography or Elementary Physiographic Geology. This course is meant to supplement a course in Elementary Geology, and deals with the origin and development of the forms of the earth's surface. This subject includes the life histories of rivers, lakes, mountains, plateaus, plains, coast lines, continents, islands, etc., and a classification of these different features both with reference to all these classes and to each class as such. Consideration is also given to topographic forms in their relation to climate and to human occupation.

Although an elementary knowledge of Geology is necessary

2. **Psychology.** It is the aim to make a candid study of mental phenomena and laws, without undue emphasis of attendant physiological processes or unwarranted assumption of rational implications. Special attention is given to the practical bearing of the results attained. The second term will be largely devoted to a study of the psychological foundations of education. Text-books: Halleck, Harris. Special references: Ladd, James, Titchener, Dewey. General references: Lotze, Wundt, Sully, Höffding. Two hours.

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Although an elementary knowledge of Geology is necessary

for the best understanding of the subject of physiography, the lack of this need not be a bar to entering the course, as complete examinations of geological points will be made when wanted

The course occupies two hours a week, one hour being devoted to a lecture, and the second hour (immediately succeeding the lecture if possible) is taken up in examination and study of the maps, charts, photographs, and models.

If possible, there are occasional field-lectures in place of laboratory work, when various points in the neighborhood of Washington are visited and the important features of the local topography pointed out.

## PHYSICS AND ELECTRICAL ENGINEERING.

PROFESSOR WOLFF, Head of Department.

MR. REISNER, Laboratory Assistant.

1. General Physics. Three hours. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Text-books: Glazebrook's Mechanics; Ames' Theory of Physics.

This course is fully illustrated by experiments, and practical physical measurements are made before the class.

2. Elementary Mathematical Theory of Electricity and Magnetism. Three hours, first term. Text-book: S. P. Thompson's Elementary Lessons in Electricity and Magnetism.

3. Dynamo-electrical Machinery. Three hours, second term. Text-book: Hawkins and Wallis, The Dynamo.

4. Advanced Mathematical Theory of Electricity and Magnetism. Three hours, first term. Text-book: Duncan's Translation of Gerard's Electricity and Magnetism.

5. Dynamo-electric Machinery. Advanced course. Three hours, second term. Text-books: S. P. Thompson, Dynamo-electric Machinery, Polyphase Currents.

6. Technical Applications of Electricity. Two hours.

7. Advanced Physics. A mathematical course intended to acquaint the student with the methods of mathematical physics,

and as an introduction to the more advanced courses in the Graduate School. Three hours, second term.

8. Physical Chemistry. An elementary course with special reference to the modern theories of solutions and electro-chemistry. Two hours.

9. Elementary Laboratory Work. The exercises will include fundamental measurements and experiments in all branches of Physics. Three hours, both terms, or five hours, second term.

10. General Electrical Measurements. A laboratory course for students in the third year of the Electrical Engineering course. Six hours. Text-book: Carhart and Patterson's Electrical Measurements.

11. Advanced Laboratory Work for Third Year Students. This includes such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols. Six hours.

12. Advanced Laboratory Work for Fourth Year Students in the Electrical Engineering Course. Dynamo and motor-testing, determinations of characteristics, etc. Six hours.

13. Advanced Laboratory Work for Fourth Year Students in the course in Physics and Mathematics. Students first repeat a number of classic researches in experimental physics, and, when thus prepared, undertake original work under the guidance of the head of the department.

14. Inspection of Electric Light and Power Plants. In and around Washington and Baltimore are a number of the most modern electric-lighting and street-railway plants, telephone exchanges, telegraph operating-rooms, etc., which afford students of electrical engineering an excellent opportunity of familiarizing themselves with nearly all types of electrical machinery. The visits are followed by a class discussion.

Occasional meetings are held at which papers on special subjects are read by advanced students.

For a description of the apparatus in the electrical engineering laboratory available for tests, see page 91.

## ROMANCE LANGUAGES.

PROFESSOR RAMSEY, Head of Department.

MR. MAILLET, Assistant in French.

MR. SPINOZA, Assistant in Spanish.

MR. CLARK, Assistant in French.

*French.*

1. As the aim of the instruction during the first year is to give the students a working knowledge of the language, their efforts are centered upon its grammatical construction and the acquisition of a vocabulary. By the end of the year the class is expected to have mastered the essentials of the grammar, and to be able to read easy French prose and to understand it when spoken. To this end the French language is used as far as practicable as a medium of instruction. Two hours.

Text-books: Chardenal's French Course; Bercy, *La Langue Française* (part 1); Roulier's First Book of French Composition; Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary).

2. Continuation of the study of grammatical construction, with exercises in composition and conversation. Occasional lectures in French on topics of general interest. Oral drill in sight rendering of English into French. Study of synonyms and idioms. Two hours.

Text books: Whitney's Practical French Grammar; Hennequin's French Idioms; Sandeau, *Mlle. de la Seiglière*; Mérimée, *Colomba*; Corneille, *Horace*.

3. General introduction to the study of French literature. Literary composition and the principles of rhetoric: Lectures on the development of the language and upon prominent periods of the literature. Two hours.

Text-book: René Doumic, *Histoire de la Littérature Française*. The texts read, which must be representative of at least three distinct periods, are selected by the class. In addition to the amount of reading in class-hours, the students are required to examine and report upon twenty literary masterpieces, dat-

ing from Villon to the present time. (These works are furnished from the library of the Department.)

4. Advanced prose composition and verbal criticism. Two hours.

Text-books: Roulier's Second Book of French Composition; Méras, *Syntaxe Pratique*; Muzzarelli, *Antonymes de la Langue Française*; Crouslé, *Grammaire Française (Cours Supérieur)*; Legouvé, *La Lecture en Action*.

5. French Conversation for beginners. (Mr. Maillet.) Two hours.

A four months' course, given twice yearly, beginning October 1 and February 1, intended for members of classes 1 and 2 who desire more instruction in conversation than can be given in the required work of those years.

6. French Conversation for advanced students. (Mr. Maillet.) Two hours.

### *Spanish.*

The instruction in Spanish in this department has always been conducted with especial reference to the constantly increasing intercourse between the United States and the Spanish-American Republics, as much attention as possible being given to the customs, usages, resources, and products of those countries. In view of recent political events, the necessity becomes still more obvious for accentuating the New World features of the Castilian tongue.

7. The class is drilled in pronunciation, in hearing the spoken language, in writing from dictation, and in oral and written translation into Spanish of carefully graded exercises. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

Text-books: Ramsey's *Elementary Spanish Grammar* and *Elementary Spanish Reader*.

8. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms. History and development of the Castilian language and literature. Exercises in literary composition. Reading from

standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's Text-book of Modern Spanish and Spanish Prose Composition; and texts, to be selected as required.

9. Advanced prose composition and verbal criticism. Two hours.

Text-books: Ferreyra, *Lecciones de idioma castellano*; Arpa, *Ejercicios prácticos*; Valbuena, *Ripios académicos* and *Ripios ultramarinos*; Orellana, *Clazña del lenguaje*.

10. Spanish conversation for beginners—homologous to Course 5 in French. (Mr. Spinoza.) Two hours.

### *Italian.*

11. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered the class is led at once to the reading of the easier prose authors, ending with the "Alberto" of De Amicis. Two hours.

Text-books: Lemmi's *Italian Grammar*; Comba, *La Lingua Italiana*.

12. Further study of the grammatical construction and the principles of syntax and style. History and development of the Tuscan language and literature. Selections from Dante Alighieri, Petrarca, Boccaccio, Ariosto, Tasso, Goldoni, Pellico, and Manzoni. Two hours.

Text-books: Sauer's *Italian Grammar*; Montague's *Modern Italian Readings*.

## ZOÖLOGY.

PROFESSOR GILL, Head of Department.

A general course in Zoölogy will include lectures and laboratory work. The lectures in their scope cover all the branches of the animal kingdom, from the unicellular organisms to mammals, and correlated with these lectures is the study and dissection of type specimens in each group. This course is intended

to familiarize the student with biological characters, classificatory laws, and the general principles of evolution.

Lecture. One hour.

Laboratory. One hour.

## MECHANICAL AND ELECTRICAL ENGINEERING LABORATORY.

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches. The Mechanical Engineering Department is also provided with a valuable collection of machine parts, illustrating the best modern practice, such as shaft-hangers, pedestals, valves, jacks, friction clutches, etc.

It is expected that arrangements will be perfected during the present session to provide the necessary additional testing machines and instruments to give a laboratory course in engineering practice. The lighting and heating plant now being installed in University Hall will form an excellent basis for such work.

A 25 K. W. direct current Westinghouse dynamo, directly connected to a Westinghouse gas engine of the latest type, has been installed. The dynamo was specially constructed to adapt it to experimental requirements, generating both direct and polyphased alternating currents. The surplus power of the Westinghouse gas engine, which is directly connected to the dynamo, will be utilized in driving smaller dynamos of various forms, which the students will have the opportunity of testing.

The engine is one of the latest and most improved types of gas engines, being a two-cylinder single-acting engine, giving an explosion every revolution, and an exceptionally close regulation. Provision is made for testing the efficiency of each machine independently, or the combined unit under a great variety of conditions.

In addition to the above, an experimental electrolytic refining plant has been installed, current for which is furnished by a Crocker & Wheeler motor dynamo, giving 150 amperes at 6 volts. Special investigations in electrometallurgy are in contemplation.

The laboratory is being equipped with the necessary measuring apparatus, direct and alternating current ammeters and voltmeters, galvanometers, standard resistances, standard cells, etc.

### UNIVERSITY LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m.

### UNIVERSITY LECTURES.

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

### EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

“Examinations for degrees in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported by the Faculty of each to the President of the Faculties at least two weeks before the date of Commencement.”

“Examinations for prizes in each of the said departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of Commencement.”

“No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer.”

Professors and Instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.



## REQUIREMENTS FOR DEGREES.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The Degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered, or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

## SCHOLARSHIPS.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Corcoran Scientific School of The Columbian University, at the discretion of the Dean of said School."

Edward T. Fristoe Scholarship has been founded in memory of the first Dean and Professor of Chemistry of the Corcoran Scientific School. The income from this fund is not yet available.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, consist of five scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year

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will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

All awards of scholarships are made for one year only, but may be renewed. Applications for Scholarships should be filed with the Dean not later than September 15th.

### LOAN COLLECTION OF TEXT-BOOKS.

Through the generosity of Mrs. Susan Moore, a collection of text-books has been provided, to be loaned to indigent students at the discretion of the Dean. Additions to this collection are solicited.

### PRIZES.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

**SCHMIDT PRIZE.**—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a pocket case of the finest Drawing Instruments. All students in full standing in the second year taking a full course in one of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments; Descriptive Geometry plates to count seventy-five (75) per centum, and twenty-five (25) per centum to be evenly distributed between the yearly examinations in Descriptive Geometry and the second year mathematical studies taken in common by all four departments.

**VEERHOFF MEDAL.**—Mr. W. H. Veerhoff offers a gold medal to that student in Architecture who obtains the best average in

the first year of the course in Fine Arts as applied to Architecture.

**AMATEIS MEDAL.**—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

*Prize Awards, 1898.*

Willie E. Fitch Prize.....Aida Mary Doyle.  
Schmidt Prize.....Harry Ormond Cutting.  
Veerhoff Prize.....A. Sidney Jones.

**ANNUAL TUITION FEES.**

For single studies, without laboratory work.....	\$40 00
For two studies, without laboratory work.....	75 00
For three or more studies, without laboratory work.....	100 00
Course 2 or 3 in Chemical Laboratory, including cost of material and apparatus .....	50 00
Laboratory Course in Chemistry (except 2 or 3).....	100 00
For chemicals used .....	25 00
Deposits (returnable) for breakage. ....	25 00
Laboratory Courses in Assaying of Ores and Bullion ....	40 00
For materials used .....	20 00
Elementary Course in Physical Laboratory.....	20 00
Advanced Course in Physical Laboratory .....	30 00
Laboratory Course in Mineralogy (for the year).....	60 00
For materials used .....	10 00

**ANNUAL FEES FOR FULL COURSES OF STUDY  
LEADING TO THE DEGREE OF BACHELOR OF  
SCIENCE.**

Freshman year (common to all courses).....	\$100 00
Sophomore year, Course 1 (laboratory fees extra)....	100 00
Junior       "       "       1       "       "       "       .....	100 00
Senior       "       "       1       "       "       "       .....	100 00
Sophomore   "       "       2 .....	100 00
Junior       "       "       2 .....	100 00

Senior	year, Course	2	\$100 00
Sophomore	"	3	120 00
Junior	"	3	130 00
Senior	"	3	130 00
Sophomore	"	4	130 00
Junior	"	4	120 00
Senior	"	4	120 00
Sophomore	"	5	130 00
Junior	"	5 (deposit, \$10.00)	150 00
Senior	"	5 (deposit, \$10.00)	150 00
Sophomore	"	6	130 00
Junior	"	6 (deposit, \$10.00)	150 00
Senior	"	6 (deposit, \$10.00)	150 00
Sophomore	"	7	100 00
Junior	"	7	100 00
Senior	"	7	100 00
Sophomore	"	8	130 00
Junior	"	8	120 00
Senior	"	8	130 00
Sophomore	"	9	130 00
Junior	"	9	100 00
Senior	"	9 (laboratory fees extra)	100 00
Sophomore	"	10	105 00
Junior	"	10 (deposit, \$10.00)	150 00
Senior	"	10	100 00
Sophomore	"	11	100 00
Junior	"	11	100 00
Senior	"	11	100 00
Sophomore	"	12	100 00
Junior	"	12	100 00
Senior	"	12	100 00
Sophomore	"	13	100 00
Junior	"	13	100 00
Senior	"	13	100 00
Sophomore	"	14	100 00
Junior	"	14	100 00
Senior	"	14	130 00
Sophomore	"	15	130 00
Junior	"	15	130 00
Senior	"	15	130 00
Diploma fee (final)			10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, unless special arrangement be made with the Treasurer to suit the convenience of the student. Fees for single or for special studies are payable in advance in half-yearly installments. No deduction on account of absence will be made for less time than one quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study should inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.

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### ROOMS AND BOARD.

During the year 1898-'99 desirable rooms, convenient to the University buildings, have been offered at prices ranging from \$5 to \$10 per month, and good board has been offered from \$15 to \$20 per month. List of persons offering rooms and board can be obtained from the Registrar of the University.

For further information regarding the Corcoran Scientific School, application may be made to

HOWARD L. HODGKINS, *Dean,*  
*The Columbian University.*

## STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

### *Candidates for Degrees.*

Name.	State.	Address.
Adams, Fannie Emma.....	N. C.....	1008 N Street.
Alexander, John Phipps.....	Tenn ....	Treasury Departm't.
Allison, Isaac.....	D. C.....	90 M Street.
Ancona, John F....	D. C.....	1742 F Street.
Anderson, Cyrus N.....	Miss.....	2119 F Street.
Armstrong, John Elmer.....	N. Y.....	Pension Bureau.
Arrick, Lucy Y.....	Ohio.....	1332 Mass. Avenue.
Beale, Kenneth Foster.....	Mass.....	1709 Corcoran St.
Beeler, George Lowman.....	Ill. ....	409 G Street, N. E.
Blakelock, David Holmes .....	D. C.....	619 6th Street, S. W.
Boswell, Francis Gordon .....	D. C ....	415 O Street.
Boyle, Eldridge Roger.....	Md.....	Hyattsville, Md.
Brann, Berlin Guy.....	D. C.....	1309 F Street.
Brearley, James A. ....	D. C.....	306 10th Street, S. E.
Brewer, Martha Maria....	Md.....	118 Mass. Ave., N. E.
Brown, Archibald Webster....	Md .....	1729 13th Street.
Bunn, Alexander M.....	N. C.....	227 Patent Office.
Calver, Arthur W.....	D. C ....	1721 P Street.
Colestock, Harry Ludwig .....	Pa. ....	937 Mass. Avenue.
Covell, Leon Claude.....	D. C.....	1122 G Street, S. E.
Cross, S. Clark .....	D. C. ...	1012 17th Street.
Crowell, William Butterworth.	Ohio.....	1508 Park Street.
Cutting, Harry Omond.....	Wis.....	102 Patent Office.
Davis, William Hammett .....	N. Y.....	817 15th Street.
Didden, George A.....	D. C.....	709 13th Street.
Doyle, Louis Irving.....	Pa. ....	1902 Third Street.
Ecker, John Beard.....	N. Y.....	1219 16th Street.
Eldridge, Maurice Owen.....	Tenn ....	1828 9th Street.
Fellows, Harriet Adele.....	Conn....	1510 Caroline Street.
Fowler, Harold Will. ....	N. Y.....	741 1st Street.
Gale, Julien Chisolm.....	Pa.....	1618 17th Street.
Georgii, Max .....	D. C.....	606 F Street.
Giles, Louis E .....	Mich.....	125 B Street, S. E.
Gordon, John Blake. ....	D. C.....	6 Cooke Place.



Name.	State.	Address.
Gregory, Joseph William.....	D. C.....	110 5th Street, N. E.
Guerdrum, George Herbert....	D. C.....	440 Jefferson Street, Anacostia, D. C.
Gwinn, Thomas R.....	Md.....	1225 Conn. Avenue.
Hadsall, Joseph C.....	W. Va....	Treasury Departm't.
Harrison, Joseph Owens, Jr....	D. C.....	631 East Capitol St.
Hayes, Roy Bagley.....	Wis.....	626 O Street.
Hiatt, Frank H.....	Neb.....	502 C Street S. E.
Hiatt, James Edgar.....	Ind.....	259 N Street.
Hillyer, Edward L.....	Fla.....	412 A Street, S. E.
Hillyer, William Eldridge.....	Fla.....	412 A Street, S. E.
Holmes, Kirk.....	Minn....	1502 H Street.
Holmes, Robert J.....	Neb.....	622 5th Street.
Holt, Lester Morton.....	Wis.....	1017 12th Street.
Hood, Charles Emerson.....	D. C. . .	Pacific Building.
Hopkins, N. Monroe.....	D. C.....	1833 Jefferson Place.
Jones, A. Sidney... ..	N. C.....	1005 8th Street.
Kleberg, Alfred Leon.....	Texas. . .	406 A Street, S. E.
Lacy, John McDowell.....	D. C.....	3013 Cambridge Pl.
Law, Leroy Mahler.....	D. C.....	423 9th Street, N. E.
Lewis, Noble.....	D. C.....	515 12th Street.
Lillie, Ray D.....	Mich.....	Indian Office.
Lupton, Edward Janney Sidwell.	W. Va....	Treasury Departm't.
Marean, Guy Bennett.....	D. C.....	1900 Lincoln Ave.
Marean, Ralph Brewster.....	Pa. ....	410 2d Street, N. E.
Marsh, Earl G.....	Ohio....	628 E Street, N. E.
Meigs, Orton L. ....	D. C.....	325 2d Street, S. E.
Millikin, Humphreys.....	Tenn....	The Victoria.
Moore, Charles A.....	Col.....	Post Office Dep't.
Mueden, Rudolph Edward....	D. C.....	437 M Street.
Noyes, Edward R.....	D. C....	500 Md. Ave., S. W.
Olberg, Charles Real.....	Minn... .	322 Spruce Street.
Palmer, Roy M.....	D. C.....	1408 31st Street.
Parkman, Mary Rosetta... ..	D. C.....	802 D Street, N. E.
Pierce, Charles Herbert.....	Tenn....	246 Patent Office.
Pierson, William Thomas, Jr..	Fla.....	315 5th Street, S. E.
Portner, Robert F.....	D. C.....	1104 Vermont Ave.
Powell, Walter Reynolds.....	Md.....	Box 39, Anacostia.
Redington, Richmond B.....	D. C.....	1749 Q Street.
Rhea, Robert Yancey.....	Ky.....	907 Mass. Avenue.

Name.	State.	Address.
Roane, Edward Bertrand.....	D. C.....	422 B Street, S. E.
Roberts, Edwin E.....	D. C.....	621 East Capitol St. M. D., National University.
Sackett, William H.....	Neb.....	635 Md. Ave., N. E.
Schooley, Charles H.....	Colo.....	943 R Street.
Scott, Walter Armitage.....	Ill.....	War Department.
Skinner, Frank Eugene.....	Md.....	Takoma Park, D. C.
Smith, Dempster Martin....	D. C.....	1838 Vermont Ave.
Smith, Roger Green.....	D. C.....	314 A Street, N. E.
Stabler, Harold B. ....	D. C.....	1321 G Street.
Stenger, Robert Cunningham..	Pa.....	2102 18th Street.
Taggart, Giles Russell.....	N. J.....	58½ Bates Street.
Thatcher, Frank Hosford.....	Iowa.....	1016 D Street, N. E.
Thomas, George M., Jr.....	Ky.....	1325 Vermont Ave.
Thompson, Edward Cyrus....	Iowa.....	1312 8th Street.
Thompson, John Ambrose....	D. C.....	1720 H Street.
Thompson, Wilford Ashford...	Iowa....	1312 8th Street.
Thorneley, Walter C.....	Pa.....	Gov't Printing Office.
Todd, George Carroll.....	Va.....	3169 P Street.
Topping, D. Le Roy.....	N. Y.,....	1913 Penna. Ave.
Townsend, Clinton P.....	La.....	151 Patent Office.
Tripp, Homer F.....	Ohio.....	525 New Jersey Ave.
Tweedale, Linda M.....	Pa.....	12 Grant Place.
Twitchell, Mayville William...	N. Y....	730 22d Street.
Underwood, Lineas D.....	Ohio.....	Patent Office.
Upton, Gertrude E.....	Maine...	406 Spruce Street.
Warner, George Littleton.....	Ohio.....	1514 Q Street.
Wasdon, B. G.....	Ark.....	1221 12th Street.
Waters, Cyrus Borrows.....	D. C.....	716 7th Street.
Wayland, James P.....	D. C.....	1706 R Street.
Weer, Charles Raymond.....	Ohio.....	1712 14th Street.
Weer, Edward Leroy.....	Ohio....	1712 14th Street.
Weller, Francis R. ....	D. C.....	408 C Street, S. E.
West, Sara.....	Germany.	205 G Street.
Wharton, John James, Jr.....	Va....	City Post Office.
Williams, Anna Ruby.....	Ga.....	1520 Corcoran Street.
Wooster, Walter Mallery.....	D. C.....	1443 Q Street.
Yancey, K. Lulalia.....	Va.....	1309 17th Street.

*Special Students.*

Name.	State.	Address.
Ailes, Eugene Elliott.....	Ohio.....	951 25th Street.
Allen, Fanny May.....	Md.....	704 3d Street.
Atwell, Howard J.....	Va.....	905 C Street, N. E.
Baker, Stephen H.....	Mass.....	1335 12th Street.
Barnes, Mary A.....	N. J.....	912 Mass. Avenue.
Barnhart, Joseph H.....	Ill.....	728 Sheridan Street.
Bauskett, Helen V.....	S. C.....	1408 S Street.
Beach, Bessie Baldwin.....	Conn.....	1416 11th Street.
Bell, David W. ....	N. C.....	1331 Kenesaw Ave.
Bicksler, Lexie J.....	D. C.....	507 2d Street, S. E.
Bliss, Frank Corey.....	Pa. ....	1443 Chapin Street.
Brockett, Paul.....	Ill.....	Smithsonian Inst'n.
Brown, Nellie Beauchamp.....	Iowa.....	411 Spruce Street.
Bruce, Jeanne White.....	Minn.....	Hotel Lincoln.
Bryan, Romulus Webber.....	D. C.....	1624 18th Street.
Buell, Herbert L.....	N. Y.....	1701 V Street.
Bumstead, Albert H.....	Mass.....	1427 Chapin Street.
Caffery, John Murphy.....	La.....	2110 O Street.
Callaghan, Margaret G.....	Md.....	Tenleytown, D. C.
Cameron, Harriet L.....	Minn ...	250 9th Street, N. E.
Carney, Thomas Joseph....	D. C.....	Richmond Hotel.
Church, Clarence.....	Md.....	626 N. C. Ave., S. E.
Clapp, Ella B.....	N. C.....	1106 16th Street. .
Clements, M. F.....	Iowa.....	1131 11th Street.
Clemons, Albert Adsit..	Cal. ....	1443 Corcoran Street.
Crawley, Clarence J.....	Kan.....	215 8th Street, S. E.
Daggett, George F.....	Maine...	630 A Street, N. E.
Davies, John.....	D. C.....	309 I Street, S. E.
Dawes, Elizabeth M..	D. C.....	316 M Street.
De Lawder, Mary Adaline. ...	Md.....	1423 8th Street.
Denny, Susie W.....	Va.....	1341 Q Street.
Deweese, Emma L.....	D. C.....	201 East Capitol St.
Dieudonné, Charles C ...	D. C.....	122 Md. Ave., N. E.
Dill, Henry Gilbert.....	D. C.....	1216 Conn. Avenue.
Diver, Hetty N.....	D. C.....	222 C Street, S. E.
Duke, Emma.....	D. C. . .	807 18th Street.
Duncan, Harry Lee.....	N. Y.....	106 Patent Office.
Dunham, Charles Nelson.....	D. C.....	1740 S Street.

Name.	State.	Address.
Eldridge, Mrs. Emily L. ....	Cal.....	2020 G Street.
Evans, Maurice Preston.....	Va.....	311 S Street, N. E.
Ewell, Ervin Edgar....	Mich.....	1215 12th Street.
Feldkamp, Paul Charles.....	Ill.....	War Department.
Fisher, Hugh Wilson... ..	D. C.....	2020 G Street.
Fletcher, Frank D.....	D. C.....	1324 Q Street.
Flournoy, B. C.....	Md.....	1129 14th Street.
Flournoy, Parke P., Jr.....	Md.....	1129 14th Street.
Foley, John.....	N. Y.....	924 Mass. Avenue.
Foley, Thomas M .....	D. C.....	933 25th Street.
Ford, Ella May.....	Va. ....	63 N. Y. Ave., N. E.
Frost, Ellis F., M. D.....	D. C.....	737 13th Street.
Fuller, Mrs. Mary.....	I. T.....	208 N. J. Ave., S. E.
Gibson, Irene.....	Mo.....	1320 Corcoran Street.
Godfrey, Morella W. ....	N. Y.....	921 11th Street.
Graham, Josephine E .....	D. C.....	209 3d Street, S. E.
Greene, Jane R.....	Va.....	Alexandria, Va.
Happer, Mrs. Emily F.....	Pa.....	1612 T Street.
Hardester, David A.....	D. C.....	529 12th Street, S. E.
Harrison, J. L.....	Texas....	13 E Street.
Hayt, Rosina Electa.....	Pa. ....	128 A Street, N. E.
Heald, Emma Pauline.....	Mass.....	704 3d Street.
Hedrick, Mary E.....	D. C.....	3321 N. Street.
Herbert, Mabel Clare.....	Md.....	209 East Capitol St.
Hindmarsh, Walter B.....	Va.....	Treasury Departm't.
Hopkins, Matthew Smith.....	Md.....	Highland, Md.
Hyde, John Lawrence.....	Neb.....	1458 Euclid Place.
Karch, Albert F.....	Ill.....	928 N. Y. Avenue.
Keble, Clara E .....	Ohio.....	912 Mass. Avenue.
Kelly, Eugene Joseph.....	D. C.....	325 13½ Street, S. W.
Kelly, Gilbert Walker.....	D. C.....	2702 13th Street.
King, Carl Clifton.....	Ohio.....	222 F Street, N. E.
Kramer, Stephen E.....	Ga.....	1315 Q Street.
Lamont, Roscoe.....	N. Y.....	1733 Riggs Place.
Leitzell, Stuart Milton.....	Pa.....	130 R Street, N. E.
Lemly, Fred. H .....	N. C.....	1021 Vermont Ave.
Lerch, Alice.....	D. C.....	1448 R. I. Avenue.
Lovell, H. E.....	Mass.....	212 T Street.
Manning, William S. ....	W. Va...	1511 R. I. Avenue.
McBrier, Mrs. H. L.....	D. C.....	121 A Street, N. E.

Name.	State.	Address.
McConnell, Wiley N.....	Texas....	606 9th Street.
Meigs, Bertha.....	D. C.....	325 2d Street, S. E.
Merillat, Margaret.....	D. C.....	1430 8th Street.
Metcalf, Gertrude Elizabeth...	Maine....	1631 Marion Street.
B. S., Columbia University, 1898.		
Mewshaw, James.....	Md.....	Rockville, Md.
Moulton, E. Phillips.....	Ohio....	1331 12th Street.
Mowrer, Hattie A.....	Md.....	Documents Office.
Nesbit, Donald.....	Va.....	1202 21st Street.
Nussbaum, Sophie F. E.....	N. Y.....	1637 13th Street.
Oberly, Beatrice C.....	D. C.....	629 Md. Ave. N. E.
Ogden, E. Lucy.....	Tenn....	109 5th Street, S. E.
Ogden, George R.....	Mont....	1413 V Street.
Oliver, Mary Lackland.....	D. C.....	1725 Riggs Place.
Orth, Henry, Jr.....	D. C.....	1011 L Street.
M. E., Lehigh University, 1893; LL. B., Columbia University, 1896; LL. M., Columbia University, 1897.		
Osterman, Gilbert J.....	D. C.....	Anacostia, D. C.
Ottenberg, Jennie.....	D. C. . .	1243 7th Street.
Parsons, James L., Jr.....	D. C.....	322 10th Street, S. E.
Patrick, George Edward.....	Iowa....	1785 Mass. Avenue.
B. S., Cornell University, 1873; M. S., Cornell Uni- versity, 1874.		
Pattison, Blanche L.....	D. C.....	1416 6th Street.
Pierce, Julian.....	Mich . . .	101 G Street.
Pistorio, Irene Mabel.....	D. C.....	626 B Street, S. W.
Post, William Leander.....	D. C.....	1517 Caroline Street.
Post, William S.....	Ill.....	1738 Q Street.
Price, Harry N.....	Ohio. . .	1709 13th Street.
Raber, Katherine M.....	Ohio....	1300 Lydecker Ave.
Richards, George Lawrence....	N. Y.....	1414 K Street.
Riddleberger, Hugh C.....	Va. . . . .	1601 15th Street.
Riddleberger, Olive M.....	Va.....	1601 15th Street.
Russ, Arthur B. . . . .	Maine . .	9 9th Street, S. E.
Schley, Milton Boyd.....	Md.....	908 12th Street.
Schwartz, Andrew J.....	W. Va...	16 I Street.
Siewers, Ralph de Schweinitz..	N. C. . . .	1023 Vermont Ave.

Name.	State.	Address.
Sigourney, Daniel Paul.....	D. C.....	1555 9th Street.
Smoot, Lloyd D.....	D. C.....	3017 N Street.
Snell, Cora Ethel.....	Neb.....	Takoma Park, D. C.
Spliedt, Charles Edward.....	D. C.....	907 East Capitol St.
Stearns, Alice W.....	Minn.....	406 Florida Avenue.
Stetson, Frank O.....	Mass.....	1802 R Street.
Steward, Willard G.....	La.....	810 11th Street.
Stickney, Rosamond K.....	D. C.....	607 M Street.
Stout, John K.....	Neb.....	501 Stanton Pl, N. E.
Symons, William L.....	Ohio.....	1021 11th Street.
Tauberschmidt, John A.....	D. C.....	1717 6th Street.
Thompson, Charles Newton...	Va.....	1104 12th Street.
Thomson, Mary. ....	Wis.....	The Litchfield.
Tilton, Emma Evangeline.....	D. C.....	220 2d Street, N. E.
Town, Frederic E.....	D. C.....	1111 14th Street.
Townsend, Arthur C.....	Md.....	1218 Mosher Street, Baltimore, Md.
Triepel, Mrs. Emma M. V.....	N. C.....	1211 Q Street.
Turner, Emma Harper.....	Ind.....	1507 R. I. Avenue.
Uhler, John Lloyd.....	Va.....	611 Cameron Street, Alexandria, Va.
Ulke, Julius, Jr.....	D. C.....	1004 S Street.
Underwood, Norman.....	D. C.....	1407 10th Street.
Waring, Mrs. Lucretia Cole....	Cal.....	2233 Q Street.
Webster, Edward Harlan.....	Pa.....	1509 10th Street.
Wightman, Mary Dickson.....	Pa.....	1727 Riggs Place.
Wissinger, Purcell H.....	D. C.....	New P. O. Building.
Witherspoon, Thomas Alfred..	Tenn.....	27 Iowa Circle.

U. S. Naval Academy, 1883;  
 LL. B., Columbian Univer-  
 sity, 1891; M. S., Columbian  
 University, 1897.

Candidates for degrees.....	110
Special students.....	136
Total.....	246

# THE SCHOOL OF GRADUATE STUDIES.

## FACULTY.

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President.

CHARLES E. MUNROE, PH. D.,  
Dean, and Professor of Chemistry.

REV. ADONIRAM J. HUNTINGTON, D. D.,  
Professor of Greek.

REV. SAMUEL M. SHUTE, D. D.,  
Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,  
Professor of Mathematics.

LEE D. LODGE, PH. D.,  
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D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy.

THEODORE N. GILL, PH. D.,  
Professor of Zoölogy.

CLEVELAND ABBE, A. M., LL. D.,  
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,  
Professor of German.

## THE COLUMBIAN UNIVERSITY.

REV. J. MACBRIDE STERRETT, D. D.,  
Professor of Philosophy.

EDGAR FRISBY, A. M.,  
Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,  
Professor of Philosophy.

EMIL A. DE SCHWEINITZ, PH. D.,  
Professor of Bio-Chemistry.

FRANK W. CLARKE, S. B.,  
Professor of Mineral Chemistry.

HARVEY W. WILEY, PH. D.,  
Professor of Agricultural Chemistry.

REV. FRANK H. BIGELOW, A. M.,  
Professor of Solar Physics.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology.

HOWARD L. HODGKINS, PH. D.,  
Professor of Mathematics.

EDWARD FARQUHAR, PH. D.,  
Professor of Ancient and Church History.

LOUIS AMATEIS,  
Professor of Fine Arts as Applied to Architecture.

FRANK A. WOLFF, PH. D.,  
Professor of Electrical Engineering.

F. LAMSON-SCRIBNER, B. Sc.,  
Professor of Botany.

JOSEPH C. HORNBLLOWER,  
Professor of Architecture.



C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

MARATHON MONTROSE RAMSEY, A. M.,  
Professor of Romance Languages.

ANDREW F. CRAVEN, PH. D.,  
Professor of Economics.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

CHARLES C. SWISHER, PH. D.,  
Professor of American and English History.

FELIX FREYHOLD, C. E.,  
Professor of Civil Engineering.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English.

GUSTAVE AYERS, M. E.,  
Professor of Mechanical Engineering.

CHARLES W. DOWNING, A. M.,  
Professor of Latin.

HERBERT LOUIS RICE, M. S.,  
Professor of Astronomy.

DOMINGO A. USINA, C. E.,  
Assistant Professor of Applied Mathematics.

OTIS T. MASON, PH. D., LL. D.,  
Lecturer on Anthropology.

## BOARD OF DIRECTORS OF UNIVERSITY STUDIES.

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**OTIS T. MASON, Ph. D.,** Lecturer on Anthropology.

**CLEVELAND ABBE, A. M., LL. D.,** Professor of Meteorology.

**D. KERFOOT SHUTE, A. B., M. D.,** Professor of Anatomy.

**JAMES HOWARD GORE, Ph. D.,** Professor of Mathematics.

**LEE D. LODGE, Ph. D.,** Secretary, and Professor of Political Philosophy.

**HERMANN SCHOENFELD, Ph. D.,** Professor of German.

**Rev. J. MacBRIDE STERRETT, D. D.,** Professor of Philosophy.

**Rev. FRANK H. BIGELOW, A. M.,** Professor of Solar Physics.

**CHARLES C. SWISHER, Ph. D.,** Professor of American and English History.

**WILLIAM ALLEN WILBUR, A. M.,** Professor of English.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The sixth session begins Wednesday, September 27, 1899.

The School is opened each year with a public address by a member of the Faculty.

## DEGREES.

The degrees of Master of Arts (M. A.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the School of Graduate Studies under such regulations as may be established from time to time by the Board of Directors; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors of University Studies.

*The Masters' Degrees.*

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis.

*Engineering Degrees.*

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, or Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

*Doctors' Degrees.*

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates, they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in the study at this University of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the results of original research in their major subject, which theses they shall be prepared to defend before a board of experts.

### FEES.

The matriculation fee of candidates for any degree conferred in this School is ten dollars.

The annual fee for instruction and direction of candidates for Master's degrees is thirty dollars.

The annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree is ninety dollars.

Where laboratory courses are taken, an additional fee is required.

The fee for a diploma is ten dollars.

### COMMENCEMENT.

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

### THESES.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official Thesis paper can be purchased from the Registrar of the University.

All theses must be presented to the Dean not later than May 11.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation and to present fifty copies of the printed thesis to the University, through the Dean, to be distributed among learned institutions.

### FINAL EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

“Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all can-

didates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of the commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

## COURSES OF STUDY.

The following courses are offered to students in the School of Graduate Studies. Candidates for the degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

### ENGLISH.

PROFESSOR WILBUR.

The courses offered are given according to the needs of students actually in attendance. The work is not, as a rule, conducted in classes, but through personal conference and individual research. A satisfactory thesis is required at the completion of each course of graduate study.

1. The Elements of Style. (1) Sound: An investigation of the phonetic elements of words as a distinct factor in style. (2) Words: The sources and growth of the English vocabulary; the percentage of native words in the English of different writers; comparative values of the native and the foreign elements; the significance of words. (3) Sentences: The history of sentence-length and sentence-form in English prose. (4) Paragraphs: The history of the English paragraph. (5) Figures of Speech. (6) Forms of Discourse.

2. English Literary Criticism. (1) A study of the principles of literary criticism, with exercises in the criticism of literature of varying types. (2) The history of English literary criticism from the sixteenth century.

3. Literary History of England. A survey of the whole field, and a critical study of some phase of literary development. The following authors are read: Taine, Ten Brink, Brooke, Saintsbury, Gosse, Stedman.

4. Literary History of America. A survey of the whole field, and a critical study of some phase of literary development. The following authors are read: Tyler, Richardson, Stedman, Bates, Vedder, and the volumes in the "American Men of Letters" series.

5. English Romanticism. The history of English romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

6. Marlowe. The works of Christopher Marlowe, with studies in language, versification, dramatic art, influence, and interpretation.

7. Shakespeare. The works of Shakespeare, with inductive studies in phases of dramatic art, and in interpretation.

8. Tennyson. A comprehensive study of Tennyson's works; his literary characteristics; his ethical and religious teaching.

## GREEK.

PROFESSOR HUNTINGTON.

For the Master's Degree one of the following courses is offered

1. Herodotus and Thucydides.

2. Homer (parts of the Iliad and Odyssey not read in the undergraduate course) and the Lyric Poets.

3. The Attic Orators.

For the degree of Doctor of Philosophy two of the following courses are offered :

4. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.

5. The Tragic Poets.

6. Plato or Aristotle.

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also (a) in Greek Composition ; (b) in the Grammar and Philosophy of the language ; (c) in the History of Literature ; (d) in Greek History and Archeology. They are also required to present a thesis on some subject connected with Greek study.

## LATIN.

PROFESSOR DOWNING.

The graduate work in Latin is conducted on the Seminary plan. Each year some one author or branch of Latin Literature is selected. Since this work is varied from year to year, the student has a new field each year. In addition to careful reading and general critical work, a thesis is required each year.

1. Comedy. Selected plays of Plautus and Terence. Special attention will be given to early Latin. 1899-1900.

2. History. Work will be based on selections from Livy and on the Annals of Tacitus.

3. Satire. Its origin and development will be traced. Fragments of Lucilius, Horace, Juvenal.

4. Development of Prose. Special attention given to the oratorical works of Cicero.

## ROMANCE LANGUAGES.

PROFESSOR RAMSEY.

*French.*

The following three courses are offered in French literature, dealing with the three most prominent epochs of its history prior to the Revolution :

1. Francis I (1515-47) and the Renaissance.
2. Henry IV (1589-1610).
3. Louis XIV (1643-1715).

In each of these courses the condition of the country at the period in question is studied (largely from French sources), and the important writers are made the subjects of special investigation, the effort throughout being to correlate details and to seek a general tendency of the literary movement.

4. French Romanticism.

A study of the Romantic movement in France, from its earliest manifestations to the Realist reaction, based upon the treatises of Brunetière, Albert, Pellissier, Gautier, and Meyer.

5. Modern French Syntax and Lexicology.

This course takes up the language at the point where the grammatical text-books leave it. The broader principles of the use and arrangement of words, the expansion and change of their meaning, and the production of new words from material already existing in the language are illustrated by a textual study of the modern masters of French style.

*Spanish.*

1. Spanish Literature of the Eighteenth Century.

A study of the revival of culture following the War of the Spanish Succession; a general acquaintance with the culmination of Spanish literature in the Golden Era, and the subsequent decline is an implied prerequisite.



2. Spanish Poets of the First Half of the Nineteenth Century.

While this course is made as comprehensive as possible, it naturally centers upon Quintana, Espronceda, Angel de Saavedra, Zorrilla, and Campoamor.

3. Contemporary Spanish Fiction.

A comparative study of Valera, Pereda, Pérez Galdós, and Palacio Vadés, involving the tenets of modern literary criticism in Spain.

BIBLICAL LITERATURE AND SEMITIC  
LANGUAGES.

PROFESSOR POLLARD.

1. Studies in the Hebrew Prophets. Reading, with historical side lights.

2. Hebrew Poetry—its form and contents. Its national and universal features. Readings in the original Hebrew.

3. Investigations in Hebrew History. As guide, McCurdy's "History, Prophecy and the Monuments."

4. Studies in the Apostolic Age. Based upon Ramsay's "The Church in the Roman Empire," and "St. Paul the Traveller and the Roman Citizen."

5. Hebrew. Syntax and selected readings from the Books of Samuel.

6. The Cognate Semitic Languages. Aramaic, Arabic, and Assyrian, as may be required.

7. New Testament Greek. With consideration of Hebraic influence upon the "Common Dialect," and divergence from classic usage. Selected readings from the New Testament and from the Septuagint.

## GERMAN AND CONTINENTAL HISTORY.

PROFESSOR SCHOENFELD.

1. Literary Awakening in Germany in the time of Frederick the Great; critical study of the literary centers, Leipzig, Zürich, Berlin; the literary revolution and the Illuminati; critical investigation of Klopstock's Odes and Wieland's Oberon.

2. History of the Second Classical "Blüteperiode" to the time of Schiller's and Goethe's intimate friendship (1795); detailed investigation into Lessing's *Literaturbriefe*, *Laokoon* and *Hamburgische Dramaturgie*.

3. Literature of the Renaissance in Germany; influence of the Italian and French Renaissance upon the same. (With special reference to Georg Voigt, Janssen, Burckhardt, L. Geiger.)

4. History of the Middle Ages from the time of the evolution of European States to the rise of the Hohenstaufen Emperors. (Selections from the historical sources will be read and interpreted.)

5. The Political Awakening in the Eighteenth Century; Causes of the French Revolution and the Napoleonic Empire.

6. The Annihilation and Reconstruction of Prussia (H. von Treitschke); the building up of the Modern German Empire (H. von Sybel).

The archives of the National Capital will be utilized for purposes of research.

## ANCIENT AND CHURCH HISTORY.

PROFESSOR FARQUHAR.

1. Bible History. Frequent references to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors carefully considered, and the relations of Athenian to modern civilization pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors consulted, and the transition from the ancient to the modern civilization followed.

4. History of Christianity. Study of the development of the Church, and its relation to the general progress of mankind. Frequent references to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

## AMERICAN AND ENGLISH HISTORY.

PROFESSOR SWISHER.

### *American History.*

1. Era of Exploration and Discovery. Theories respecting early settlements and aboriginal population of the North American Continent based upon Archeology, Ethnology, and Tradition.

2. Colonial History. Social, territorial, and commercial conditions of the English Colonists. Legal and political status of the Colonies as conceived by Parliament, conflicts with the spirit of Independence developed by the environment of the Colonists. Union consummated through rebellion; Independence through revolution.

3. Constitutional History of the United States:

(a.) The history of the Constitutional principle traced through the early Colonial charters and "the Articles of Confederation" until finally formulated in the Constitution of 1789.

(b.) Construction of the Constitution developed under party issues from the first administration of Washington through the period of division and reconstruction.

4. The History of American Diplomacy. This course undertakes a careful study from original sources of the more important international controversies to which the United States has been a party, from the diplomacy of the Revolution to the report of the Venezuela Commission under President Cleveland.

5. The Rise and Fall of the Slave Power. Slavery as a factor in Colonial history; impetus given to the system by the Constitution of 1789; period of annexation and conquest; the causes and consequences of the Mexican war.

6. The History of the American people from 1765 to 1895.

*English History.*

1. English Constitutional History. This course seeks to explain the present working of the English political system from a survey of the whole field of English history. It reviews in detail—

(a.) Early Saxon institutions as they reappear successively after Norman and Tudor absolutism and finally assert themselves under the later Stuarts.

(b.) Party government as developed under the Whig oligarchy of the Revolution and during the reign of George III until the final triumph of popular government by the Reform Act of 1831.

2. History of English Foreign Policy. England as a continental power; the Policy of Wolsey as realized under Cromwell and William of Orange; struggle for the balance of power transferred to the seas; England and the Eastern question.

3. England as an Empire. Evolution of the imperial idea; the foundation of the Empire from the Conquest of Jamaica to the Battle of Trafalgar; the Empire as Modified by American History; the Political Situation in Canada, Australia, and South Africa.

4. The English in India. Condition of the peninsula during the Mogul Empire; establishment of British Supremacy; the Presidencies and the Native States; strength and weakness of England's position in the Far East.

5. British History from the Roman settlements to the present time.

6. England during the Nineteenth Century. A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation are arranged at the weekly meetings of the seminars of American and English history.

## PHILOSOPHY.

### PROFESSOR STERRETT.

1. Aristotle's Ethics and Politics.
2. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.
3. The Ethics of Kant and Hegel's *Rechtsphilosophie*.
4. Kant's Critique of Pure Reason.
5. Ethics of Kant's Critique of the Practical Reason, and Green's Prolegomena to Ethics.
6. Kant's Critique of the Practical Reason, and Critique of the Judgment.
7. Hegel's *Logik* and *Philosophie des Geistes*.
8. The Philosophy of Religion: Hegel and Pflaiderer.
9. Philosophy of History.
10. The History of Philosophy.

Other desired courses in Ethics and Philosophy may be arranged for with the Professor.

### PROFESSOR HARRIS.

Dr. Harris will coöperate with Dr. Sterrett in carrying out additional courses in connection with Courses 9 and 10.

## POLITICAL PHILOSOPHY.

PROFESSOR LODGE.

1. A comparative study of the political institutions of France, England, and the United States, based upon Guizot, Taine, Freeman, May, Stubbs, Boutmy, Dicey, Gneist, De Tocqueville, Bryce, C. E. Stevens, Burgess, and Maine.

2. A course in International Law ; its genetic idea ; its history ; its present status, and the specific contributions made by the Government of the United States to the improvement of the law of nations. The work is based upon Wheaton, Calvo, Gallaudet, Lawrence, Hall, Rivier, and Maine, as well as on the material furnished by the archives of the Department of State.

3. Courses in Political Economy, dealing with the problems of socialism, coöperation, and distribution, based upon the chief French, English, Italian, and German authorities.

4. A course on the Theory of the State, being elaborate studies in fundamental political philosophy, with critical examination of the history of speculation upon this subject from Aristotle to Bluntschli.

5. The Economic Interpretation of History.

## ECONOMICS.

PROFESSOR CRAVEN.

1. The Principles of Public Finance. The treatment is historical, theoretical, and statistical. Special attention is given to modern systems of expenditure and taxation.

2. Political Science. An historical study of the forms and theories of government, and a comparison of ancient, mediæval, and modern codes, with special reference to their economic effects.

3. Advanced Political Economy. A study of the science and of the theories of Economic Society, of Political Progress, and of Practical Economic Problems.

**MATHEMATICS.****PROFESSOR GORE.**

1. Higher Plane Curves; Modern Higher Algebra.
2. Mathematical Reading. Carr's Synopsis of Pure Mathematics; Láska's Mathematische Formeln - Sammlung; Gore's Factors and Formulas.
3. Advanced Integral Calculus; Theory of Equations.
4. Functions. General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, Théorie des Fonctions Abéliennes.

**PROFESSOR HODGKINS.**

5. Differential Equations.  
Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This is supplemented by lectures and by the study of Forsyth's Differential Equations (two hours a week).
6. Determinants.  
The first part of the year is given to the mastery of some elementary book on Determinants, such as that by Weld. This is followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

**APPLIED MATHEMATICS.****ASSISTANT PROFESSOR USINA.**

1. Geometry of Position, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.
2. Graphic Statics. This science may be studied with either of two objects in view:
  - (a.) As a part of Applied Mechanics.

(b.) As a part of Analytical Mechanics, based on geometry of position.

3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

4. Analytic Mechanics: Minchin, Price, Lagrange, Jacobi, Hamilton.

5. Spherical Harmonics and allied functions, with applications to mathematical physics: Todhunter, Ferrers, Thomson and Tait, Maxwell, Rayleigh, Heine.

6. Hydrodynamics and Tides: Lamb, Lagrange, Laplace, Airy, Thomson, Ferrel, Darwin.

## SOLAR PHYSICS.

PROFESSOR BIGELOW.

Graduate studies in Solar Physics in its relation to Meteorology.

1. Solar Magnetism. The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for the recent development of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. Cosmical Electricity and Magnetism. The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and ether wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. Terrestrial Magnetism. The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors:



Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. Meteorology. The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement will be made of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects.

## ASTRONOMY.

PROFESSOR FRISBY.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this department for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads :

1. The theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method, *Abhandlungen, Erster Band*. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' *Theoria Motûs*. Books of reference, as above.

3. An Outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson.

4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen, Zweiter Band und Dritter Band*. Books of reference, as above. The method of the variation of the six elements will be first taught. The other methods of Hansen and of rectangular coordinates will follow if needed.

5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the

initiation of the student into this subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

6. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*.

#### PROFESSOR RICE.

1. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers.

2. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brünnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy (such as Watson's) as are not especially concerned with the determination of orbits.

3. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulæ and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned with the tabular values of functions, for those desiring a special acquaintance with this fundamental and important subject.

4. A reading course in the History of Astronomy. Such works as Grant's *History of Physical Astronomy*, Clerke's *History of Astronomy during the Nineteenth Century*, etc., will be used as texts.

#### ASTRO-PHYSICS.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

## CHEMISTRY.

## PROFESSOR MUNROE.

Courses of graduate study in Chemistry are offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

## PROFESSOR CLARKE.

Professor Clarke offers to properly equipped students a course of research work in the development of his theory of the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

## PROFESSOR WILEY.

Professor Wiley directs special researches in Agricultural Chemistry, provided that students properly trained in the elements of that science shall present themselves for advanced work.

## PROFESSOR DE SCHWEINITZ.

Professor de Schweinitz offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry—

1. A study of the products of the growth of germs either in the animal body or upon artificial media.
2. The influence of these substances in causing disease and their relation to immunity.
3. The anti-toxins and methods of their preparation.

## ZOOLOGY.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

## ANTHROPOLOGY.

DR. MASON.

Candidates for degrees in this department are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. They should also have pursued a course in psychology, with especial reference to the study of physiology.

The special studies of the department comprise the following courses:

1. Study of the races of man.
2. The history of culture (Culturgeschichte) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.
3. The history of the past as revealed in the sciences of archæology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Haeckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as text, with readings in the journals of the Anthropological societies.

## COMPARATIVE OSTEOLOGY AND ARTISTIC ANATOMY.

PROFESSOR SHUTE.

The special studies in this department comprise the following courses :

1. A brief exposition of the principles of the Evolution of Organic Forms generally ; the Vertebrate Form and its Variations, with especial attention to Homologies ; the Human Form and its Variations (as affected by occupation, age, sex, disease).

2. Such thoroughness in the descriptions of the several Bones, Joints, and Muscles, and such study of the Superficies of the Living Model as will enable the artist to understand the Statics and Kinetics of the Human Body ; Methods of Studying the Proportions of the Human Body, etc.

## METEOROLOGY.

PROFESSOR ABBE.

ASSOCIATE PROFESSOR MARVIN.

Advanced studies in Meteorology are prosecuted under the three following subdivisions :

### *I.—Experimental Laboratory Work in Meteorology.*

In this field of work the student investigates the theories of several meteorological instruments and pushes his study to some decided advance beyond the present state of knowledge. New apparatus is devised and constructed and the nature of its errors investigated theoretically and experimentally. Old series of observations, conducted with imperfect apparatus and under unfavorable conditions, are reduced and corrected in the light of the newest discussions. The laws of such physical phenomena as have to be considered by meteorologists are investigated by laboratory methods ; among these, for example, are radiation, conduction and convection of heat, evaporation ; the formation of dew, fog, cloud, rain, snow, hail, and lightning ; the minute

oscillations of wind and pressure; the pressure and movements of the wind; the absorption of radiations from the sun or earth by the atmosphere; the viscosity of the air, convective resistances, etc.

## II.—*Practical Meteorology.*

1. Daily weather charts of all nations.
2. International charts of the Northern Hemisphere.
3. Methods of projection in cartography.
4. Influence of land and ocean on weather and climate.
5. Empirical rules as to the variability and constancy of weather and climate in general, and computations of the index of variability of climate by the laws of errors.
6. Weather types and typical weather charts, both for the United States and for the whole globe.
7. Predictions of daily weather by various methods, such as chance, persistency of current conditions, and weather types.
8. Special rules for predicting frost, cold waves, rain, snow, wind.
9. Predictions for one, two, and three days.
10. Long-range predictions for seasons and climates.
11. Precise definition of climate by Hinrich's method, and long-range predictions of Hinrich's climatic exponent.
12. Climates in past geological ages.
13. Codification of empiric and rational rules for prediction.
14. Verification of predictions and the laws of chance involved therein.

## III.—*Physical and Theoretical Meteorology.*

1. Isolation.
2. The absorption, conduction, and radiation of heat by the air, the earth, and the ocean, and the resulting distribution of temperature.

3. The thermo-dynamics of the atmosphere.
4. Convective equilibrium.
5. The general circulation of a dry atmosphere on a rotating globe.
6. The influence of oceans and continents, and the motions of the actual atmosphere.
7. Local cyclones and anti-cyclones.
8. Atmospheric waves and tides.
9. The distribution of fog, cloud, rain, and snow.
10. Optical and electrical phenomena.

## BOTANY.

PROFESSOR SCRIBNER.

1. Advanced systematic study of the various groups and families of plants.
2. Plant histology and special morphology.
3. Plant distribution and economic plants.

## GEOLOGY.

PROFESSOR MERRILL.

This department offers a course of advanced study in Physical Geology, both systematic and applied.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as

well as the most promising fields of investigation are from time to time indicated by the instructor.

During the second year the student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. Upon the thoroughness with which this subject is handled, the accuracy of observation, and the originality manifested must depend in largest measure his qualification for the desired degree. The course is modified to suit individual cases in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

### CIVIL ENGINEERING.

PROFESSOR FREYHOLD.

1. Advanced course in the Graphic Statics of Building Construction.

2. The theory of suspension, continuous, cantilever, and braced arch bridges, with a more complete course in the design of plate girders, riveted and pin-connected bridges, with working drawings and estimates.

3. Advanced course in Construction—the theory and designing of retaining walls, masonry arches, and dams.

4. A thesis the subject of which is to be selected by the student with the approval of the professor of Civil Engineering.

### MECHANICAL ENGINEERING.

PROFESSOR AYRES.

For the degree of Mechanical Engineer:

1. Thermodynamics and its Application to Hot Air, Gas, and Steam-engines.

2. Steam-engines and Boilers; their Design, Construction, and Management; Theory and Practice.

3. Design and Construction of Special Machinery; Machine Tools; Hydraulic Machinery; Gas Engines, etc.; Theory and Practice.



4. Design and Construction of Power Plants; Theory and Practice.

5. Engineering Laboratory. Efficiency tests of Engines, Boilers, Pumps, Hydraulic Machinery, etc. Hirn's Analysis.

6. Thesis. This embraces the complete solution and report on some practical engineering problem, which is presented to the candidate as to a practicing engineer. It may be a design or a report on a series of tests or investigations.

In addition to the above, the candidate is required to take Mathematics, 7; Least Squares and Civil Engineering, 11; Construction of Plants and Buildings in the Corcoran Scientific School.

For those who are not prepared to take the degree of M. E. the following courses are offered, leading to an advanced degree :

7. Thermodynamics. A critical study of Regnault's experiments, the Carnot cycle, and intropy-temperature diagrams, with references to the works of Clausius, Zenner, Rankine, Thompson, and other classical writers on the subject.

8. Analytical Theory of Heat; Fourier, Clausius, Thompson, and others.

## ELECTRICAL ENGINEERING.

PROFESSOR WOLFF.

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year, embracing the following studies :

1. Advanced Laboratory work.

2. Design of Dynamo-electric Machinery.

3. Transmission of Electrical Energy.

4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.

5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, or some special research in applied electricity.

Students are recommended to take also Mechanical Engineering, Advanced Physics, Higher Mathematics, German, French, and Chemistry.

## ARCHITECTURE.

PROFESSOR HORNBLOWER.

PROFESSOR AMATEIS.

Classical styles; Interior architecture and decoration; Construction of buildings.

The thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

## BIBLIOGRAPHY AND BIBLIOLOGY.

PROFESSOR ———.

The Professor exercises a general supervision over the bibliographic work done in this department and advises students as to the best methods of work and the accepted methods of presentation of results. Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at The Columbian University.

## DOCTORATE DISPUTATION.

The defence of the theses required of candidates for the degree of Doctor of Philosophy was held publicly in the Hall of the University, May 23, 1898. The candidate who successfully defended his thesis, the title of thesis, and the members of the board attacking the thesis were as follows:

Candidate: Cabell Whitehead, B. M., M. S.

Thesis: Study of the Methods of Formation and Properties of the Tellurides.

Experts: George F. Becker, Ph. D.; David K. Tuttle, Ph. D.; W. D. Bigelow, Ph. D.

## ADMITTED IN ATTENDANCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
George Washington Cameron ... B. S., 1898, Maryland Agricultural College.	Chemistry ....	Maryland.....	College Park, Md.
Edward Mackay Chace.....	Agricultural Chemistry.	Maryland.....	Berwyn, Md.
George Albert Ross..... B. A., 1893, William Jewell College; M. A., 1898, Columbia University.	Mathematics, pure and applied.	Missouri.....	461 Florida Avenue.
Frank Owen Stetson ..... B. S., 1888, Massachusetts Institute of Technology.	Agricultural Chemistry.	District of Columbia..	1802 R Street, N. W.
Louise Tayler..... B. A., 1896, Wellesley College; M. S., 1898, Columbia University.	Physics.....	Ohio.....	1411 Hopkins St., N.W.
Fletcher Pearre Vietch..... B. S., 1891, Maryland Agricultural College; M. S., 1898, Columbia University.	Agricultural Chemistry.	Maryland.....	College Park, Md.

## FOR THE DEGREE OF MASTER OF SCIENCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Thomas Herbert Means..... B. S., 1898, Columbian University.	Geology.....	District of Columbia..	Brookland, D. C.
Henry Orth, Jr..... M. E., 1893, Lehigh University.	Physics .....	District of Columbia..	1011 I. Street, N. W.
Jesse Pawling, Jr..... B. A., 1888, Philadelphia High School; B. S., 1893, Cornell University; M. A., 1893, Philadelphia High School.	Astronomy. ....	Pennsylvania.....	U. S. Coast and Geodetic Survey.
William Skinner.... B. S., 1895, Maryland Agricultural College.	Agricultural Chemistry.	Maryland.....	College Park, Md.
Christian George Storm..... B. S., 1898, Columbian University.	Chemistry.....	Wisconsin.....	9 K Street, N. E.
Clara Mary Upton .....	Astronomy.....	District of Columbia..	406 Spruce St., N. W.
B. A., 1897, Columbian University.			
Edward Warren Vaill, Jr. .... B. S., 1893, 1894, Worcester Polytechnic Institute.	Mathematical Physics..	Massachusetts.....	Patent Office.
George Keen Woodworth..... M. E., 1896, Cornell University.	Physics .....	District of Columbia..	1424 S Street, N. W.

## FOR THE DEGREE OF MASTER OF ARTS.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Benjamin Lucius Ansell..... Washington and Lee University.	Ancient and Church History, 4.	Virginia.....	Theological Seminary, Virginia.
Nella Ellery Bealin..... B. A., 1894, Smith College.	Political Science.....	New York.....	23 B Street, S. E.
Christabel Forsythe Fiske..... Ph. B., 1898, Cornell University.	English.....	District of Columbia..	1353 Q Street, N. W.
John Lawson Hargrove..... B. S., 1896; B. A., 1897, Ouachita College.	Economics.....	Arkansas.....	1112 H Street, N. W.
Ada Mary Catherine Hartzell.... B. A., M. E. L., 1883, Dickinson Seminary.	English, 1.....	Pennsylvania.....	Forest Glen, Md.
Robert Stockwell Hatcher..... 1879, Dresden Gymnasia; 1881, Lycée de l'Ecluse, Paris.	American History.....	Indiana.....	1140 Connecticut Ave.
Frances Mabel Jacobs. . . . . B. A., 1898, Columbian University.	Romance Languages....	District of Columbia..	1327 11th Street, N. W.

## FOR THE DEGREE OF MASTER OF ARTS.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Hannah May Johnson. .... B. A., 1896, Columbian University.	Ancient and Church History.	District of Columbia..	5 Grant Place.
Caleb Clark Magruder, Jr. .... B. A., 1889; M. A., 1898, Loyola College; LL. B., 1897, Georgetown University.	English .....	Maryland.....	Treasury Department.
Ernest Pendleton Magruder..... B. A., 1895, Johns Hopkins University.	English.....	Maryland.....	Collington, Prince George County, Md.
Cameron Farquhar McRae..... 1893, Virginia Military Institute.	Ancient and Church History, 4.	Virginia.....	Theological Seminary, Virginia.
John Dufton Minnick..... B. A., 1893, University of Indianapolis.	American History.....	Indiana.....	1220 11th Street, N. W.
Ben Wilton Murch... .. B. A., 1882; M. A., 1885, Bates College.	Economics.....	Maine.....	Force School, Massachusetts Avenue.
Rose Amelia Palmer. .... B. A., 1896, Vassar College.	Chemistry.....	District of Columbia..	1408 31st St., N. W.

Charles Kilbourne Robinson..... B. S., 1897, Columbian University.	English History, 1..... New Jersey.....	1607 S Street, N. W.
Kvander McIver Sweet, Jr..... B. A., 1895, Southwestern University.	English..... Texas.....	811 K Street, N. W.
Lila Taylor..... B. S., 1893, Wellesley College.	Mathematics..... District of Columbia..	1411 Hopkins Street.
William James Wallis..... B. A., 1894, Dartmouth College.	Mathematics, 3 and 5... District of Columbia..	1435 Chapin Street.
Jacob Morton White..... B. A., 1897, William and Mary College.	Biblical Literature... .. Virginia.....	Theological Seminary, Virginia.

## FOR THE DECREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Eugene Byrnes..... B. A., 1884, Michigan University; LL. B., 1887; LL. M., 1888, Columbian University.	Major: Physical Chemistry; Minors: Electricity, Chemistry.	New York.....	Room 149, U. S. Patent Office.
Victor King Chestnut..... B. S., 1890, University of California.	Major: Plant Chemistry; Minors: Organic Chemistry; Botany.	California..	1104 P Street, N. W.
Frank Leighton Day..... B. A., 1891; M. A., 1896, Roanoke College; B. D., 1895, Vanderbilt University.	Major: Biblical Literature; Minors: Sociology; Ancient and Church History.	Maryland.....	Pikesville, Maryland.
Marion Dorset ..... B. S., 1893, University of Tennessee; M. D., 1896, Columbian University.	Major: Biochemistry; Minors: Pathology; Bacteriology.	Tennessee.....	1120 New York Avenue, N. W.
Rev. Benjamin Alfred Dumin.... B. A., 1886; M. A., 1889, Western Maryland College.	Major: Philosophy; Minors: Psychology; History of Philosophy.	Mi-Maryland.....	413 P Street.
Charles Russell Ely. .... B. A., 1891; M. A., 1897, Yale; M. A., 1892, Gallaudet.	Major: Chemistry; Minors: Botany and Mineralogy.	Mi-Maryland.....	622 Florida Ave., N. E.



- Ernestine Fireman... Major: Chemistry (Organic); Minors: Mineralogy, Botany. 229 R Street, N. E.  
M. S., 1898, Columbian University.
- Percival Hall... Major: Pure Mathematics; Minors: Applied Mathematics, Astronomy.  
B. A., 1892, Harvard College;  
M. A., 1893, Gallaudet College;  
M. A., 1898, Columbian University.
- William Hamilton... Major: English History; Pennsylvania Bureau of Education.  
B. A., 1891, Moravian College,  
Pa.; M. A., 1894, Columbian University.
- Albert Mayer Hilliker... Course III, School of Minnesota 230 12th Street, S. W.  
B. D., 1890, Seabury Divinity School, Minn.
- Edwin Rufus Lewis... Major: Biblical Literature; Minors: Philosophy, 6, 7; Ancient and Church History, 1.  
B. A., 1861; M. A., 1864, Amherst College; M. D., 1867, Harvard College; 1871, Union Theological Seminary.
- Stephen Cookman Miller... Major: Mineral Chemistry; Minors: Organic Chemistry; Petrography.  
M. D., 1884; M. S., 1898, Columbian University; Phar. D., 1888, Howard University. 1324 New York Avenue, N. W.

## FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Eugene Byrnes..... B. A., 1884, Michigan University; LL. B., 1887; LL. M., 1888, Columbian University.	Major: Physical Chemistry; Minors: Electricity, Chemistry.	New York.....	Room 149, U. S. Patent Office.
Victor King Chestnut..... B. S., 1890, University of California.	Major: Plant Chemistry; Minors: Organic Chemistry; Botany.	California..	1104 P Street, N. W.
Frank Leighton Day..... B. A., 1891; M. A., 1896, Roanoke College; B. D., 1895, Vanderbilt University.	Major: Biblical Literature; Minors: Sociology; Ancient and Church History.	Maryland.....	Pikesville, Maryland.
Marion Dorset ..... B. S., 1893, University of Tennessee; M. D., 1896, Columbian University.	Major: Biochemistry; Minors: Pathology; Bacteriology.	Tennessee .....	1120 New York Avenue, N. W.
Rev. Benjamin Alfred Dumm.... B. A., 1886; M. A., 1889, Western Maryland College.	Major: Philosophy; Minors: Psychology; History of Philosophy.	Maryland.....	413 P Street.
Charles Russell Ely. .... B. A., 1891; M. A., 1897, Yale; M. A., 1892, Gallaudet.	Major: Chemistry; Minors: Botany and Mineralogy.	Maryland.....	622 Florida Ave., N. E.

- Ernestine Fireman..... Major: Chemistry (Organic); Minors: Mineralogy, Botany. 229 R Street, N. E.
- Percival Hall..... Major: Pure Mathematics; Minors: Applied Mathematics, Astronomy. Gallaudet College, D.C.
- B. A., 1892, Harvard College;  
M. A., 1893, Gallaudet College;  
M. A., 1898, Columbian University.
- William Hamilton..... Major: English History; Minors: American History; Economics. Pennsylvania Bureau of Education.
- B. A., 1891, Moravian College, Pa.; M. A., 1894, Columbian University.
- Albert Mayer Hilliker..... Course III, School of Minnesota Philosophy. 230 12th Street, S. W.
- B. D., 1890, Seabury Divinity School, Minn.
- Edwin Rufus Lewis..... Major: Biblical Literature; Minors: Philosophy, 6, 7; Ancient and Church History, 1. Theological Seminary.
- B. A., 1861; M. A., 1864, Amherst College; M. D., 1867, Harvard College; 1871, Union Theological Seminary.
- Stephen Cookman Miller..... Major: Mineral Chemistry; Minors: Organic Chemistry; Petrography. 1324 New York Avenue, N. W.
- M. D., 1884; M. S., 1898, Columbian University; Ph.D., 1888, Howard University.

## FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Joseph Strayer Mills..... B. A., 1890; M. A., 1893, Western Maryland College.	Major: Chemistry; Minors: Mineralogy, 2; Physics.	Maryland.....	Central High School.
Charles Moore..... B. A., 1878, Harvard College; M. A., 1898, Columbia University.	Major: American History; Minors: English History; Economics.	Michigan.....	Senate Post Office.
Henry Orth, Jr. M. E., 1893, Lehigh University.	Major: Physical Chemistry; Minors: Organic Chemistry; Physics.	District of Columbia..	1011 L Street, N. W.
George Edward Patrick..... B. S., 1873; M. S., 1874, Cornell University.	Major: Agricultural Chemistry; Minors: Biochemistry; Bacteriology.	Iowa.....	Division of Chemistry, Department of Agriculture.
Warren Waverley Phelan..... B. A., 1894; M. A., 1896, Columbia University.	Major: Comparative Jurisprudence; Minors: German and Continental History; Political Philosophy.	New York..	822 Connecticut Ave.

Edward George Portner..... Major: Organic Chemistry; Minors: Mineral Chemistry; Biochemistry.  
B. S., 1897; M. S., 1898, Columbian University.

Henry Rogers Pyne..... Major: Greek; Minors: Maine..... 1702 S Street, N. W.  
B. A., 1893; M. A., 1894, Columbian University.

Fred Ferguson Reisner..... Major: Physics; Minors: Missouri..... 323 T Street, N. W.  
B. S., 1897; E. E., 1898, Columbian University.

John Merriam Reynolds..... Major: Theories of the Pennsylvania..... 1309 Connecticut Ave.  
M. A., 1895, Columbian University.  
State; Minors: History of the Holy Roman Empire; Comparative Study of the Political Institutions of France, England, and the United States.

Alexander Summers..... Major: Political Philosophy; Minors: Tennessee..... Bureau of Education.  
B. A., 1876; M. A., 1893, University of Tennessee.

Ernest Lawton Thurston .. Major: Graphic Statics; District of Columbia.. 1503 R Street, N. W.  
C. E., 1893, Columbian University.  
Minors: Higher Calculus and Differential Equations.

## FOR THE DECREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Thomas Albert Williams..... B. S., 1889; M. A., 1891, Uni- versity of Nebraska.	Major: Panerogamic Bot- any; Minors: Crypto- gamic Botany; Geology.	Nebraska .....	Takoma Park, D. C.
Thomas Alfred Witherspoon..... M. S., 1897; LL. B., 1891, Co- lumbian University; 1883, U. S. Naval Academy.	Major: Chemistry; Mi- nors: Physical Chem- istry; Electricity.	Mid-Tennessee..... •	U. S. Patent Office.
Total .....	.....	.....	70

# THE LAW SCHOOL.

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## THE FACULTY.

BENAIAH L. WHITMAN, D. D.,  
President.

HON. WALTER S. COX, LL. D., DEAN  
(Associate Justice of the Supreme Court of the District of  
Columbia),  
Professor of the Law of Real Property and Contracts.

HON. JOHN M. HARLAN, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Professor of Constitutional Law, Domestic Relations,  
Torts, and Personal Property.

HON. DAVID J. BREWER, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Professor of the Law of Corporations and  
Equity Jurisprudence.

HON. WILLIAM A. MAURY, LL. D.  
(Sometime Assistant Attorney General of the United States),  
Professor of Common Law Pleading, Evidence, and the  
Jurisdiction and Practice of the Federal Courts.

HON. ANDREW C. BRADLEY, LL. B.  
(Associate Justice of the Supreme Court of the District of  
Columbia),  
Professor of Commercial Paper and Criminal Law.

WILLIAM G. JOHNSON, LL. M.  
(of the Washington Bar),  
Professor of Common Law Practice.

## THE COLUMBIAN UNIVERSITY.

LEE DAVIS LODGE, PH. D.,  
Professor of Sociology and Politics.

MELVILLE CHURCH, LL. M.,  
Professor of the Law of Patents.

WILLIAM F. MATTINGLY, A. M.  
(of the Washington Bar),  
Professor of Practical Commercial Law.

CHARLES W. NEEDHAM, LL. M.  
(of the Washington Bar),  
Professor of the History of Law, Trusts, and Trades Unions,  
and in charge of the Moot-Court Work.

WALTER C. CLEPHANE, LL. M.,  
FRANCIS H. STEVENS, LL. M.,  
Instructors in Moot-Court Work.

EDWIN C. BRANDENBURG, LL. M.,  
Instructor in Procedure in Bankruptcy.

## COURT OF APPEALS.

WILLIAM F. MATTINGLY, *Chief Justice*.  
ANDREW B. DUVALL, } *Associate Justices*.  
CHARLES W. NEEDHAM, }

---

CHARLES RAY DEAN, LL. B.,  
Secretary of the Schools of Law.

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This school was established in 1865, and is the oldest law school in Washington. Men occupying the highest positions in the profession are in its faculty, personal contact with whom is a source of inspiration to every student.



## LAW LECTURE HALL.

The University has just completed and is now occupying a new building, known as Law Lecture Hall, devoted exclusively to its "Schools of Law and Diplomacy." It adjoins University Hall, corner Fifteenth and H streets, and is only two blocks from the Executive Mansion. This new building contains three commodious lecture halls, two moot-court rooms, a large and well lighted library-room, and administrative offices. The building is lighted by electricity, handsomely furnished, and well equipped and adapted to the work for which it is designed.

## ADMISSION.

The applicant for admission is required to furnish evidence of having received an education fitting him for the study of law. Application blanks will be furnished by the Secretary.

The regular course of study embraces three years. There is also a special course of one year in Patent Law.

A student may be admitted to advanced standing upon furnishing evidence satisfactory to the Dean that he has spent the necessary time and performed the necessary study, whether in another law school or under the direction of a practicing lawyer; but in all such cases he will be required to produce a certificate of the fact or sustain an examination on all the subjects for which he asks credit.

The annual session begins on the first Monday in October, and continues until the Wednesday nearest the first day of June following.

The exercises of the department begin at six o'clock p. m. every week day except Saturday.

The register will be opened for the enrollment of students on the first day of September.

The University increased the regular course of study for candidates for the degree of Bachelor of Laws to three years in October, 1898. The work has been largely increased with a view of giving students that thorough knowledge of the general rules of law and practice which will fit them for the Bar of any State. The course will give the general sources of law, the law

upon the great subjects of jurisprudence, and the practical side of legal education. Professors will conduct the study of each subject by lectures, required courses of reading, and class discussions and conferences. The study of special cases upon the various subjects treated and the Moot Court work have been largely increased, thus bringing before the student the modern applications of law by the courts of the country.

Special instruction and practical work are given the students in the preparation of Contracts, Wills, and in the organization of Corporations. This work is carefully examined and returned to the student, with suggestions by the instructors in charge of the work.

There will be ten hours of class-room work in each year of the course.

## COURSES OF INSTRUCTION.

### *First Year.*

After preliminary lectures on the study of law, the courses are as follows:

HISTORY OF AMERICAN AND ENGLISH LAW.—Professor Needham.

DOMESTIC RELATIONS.—Professor Harlan. “*Brown on Domestic Relations*” and special leading cases.

PERSONAL PROPERTY.—Professor Harlan. “*Smith on Personal Property*” and special leading cases.

TORTS.—Professor Harlan. “*Pollock on Torts*” and special cases.

REAL PROPERTY.—Professor Cox. *Blackstone, Kent, or Tiedeman.*

CONTRACTS.—Professor Cox. “*Parsons on Contracts.*”

COMMERCIAL PAPER.—Professor Bradley.

First year's instruction will be carried on by topical lectures, supplemented by carefully arranged courses of reading and the study of selected cases which state and illustrate the law. There will be class discussions upon the lectures, and free questioning by students is encouraged. Quiz classes may be formed, and every facility will be afforded the student to aid him in a thorough understanding of the subjects studied.

*Second Year.*

COMMON LAW PLEADING.—Professor Maury. "*Stephen on Pleading*" (Tyler).

EVIDENCE.—Professor Maury. "*Greenleaf on Evidence*" and *special cases*.

EQUITY JURISPRUDENCE.—Professor Brewer. *Pomeroy, Adams, or Story*.

CONSTITUTIONAL LAW.—Professor Harlan. *Story*.

CORPORATIONS.—Professor Brewer. *Morawetz, Clark, or Dillon*.

REAL PROPERTY.—Professor Cox. *Blackstone, Kent, or Tiedeman*.

CONTRACTS.—Professor Cox. "*Parsons on Contracts*" and *special cases*.

ORGANIZATION OF TRUSTS AND TRADES UNIONS.—Professor Needham.

Special courses of reading in text-books and selected cases will be assigned by the professors, and cases will be used in the lectures to illustrate the subject under consideration. Practical work in the preparation of contracts and written obligations of various kinds will be given to students by the professors, and this work carefully examined. The second year students will be divided into sections, and there will be discussions and papers upon the subjects gone over in the first and second years' study.

*Third Year.*

CRIMINAL LAW AND PROCEDURE.—Professor Bradley. *Bishop*.

COMMON LAW PRACTICE.—Professor Johnson. "*Cox's Common Law Practice*" and *selected cases*.

COMMON LAW PLEADING.—Professor Maury. "*Stephen on Pleading*" (Tyler).

EQUITY PLEADING AND PRACTICE.—Professor Van Devanter (of the School of Comparative Jurisprudence and Diplomacy). "*Shipman on Equity Pleading*" and *special cases*.

PRACTICAL COMMERCIAL LAW.—Professor Mattingly.

SOCIOLOGY AND POLITICS.—Professor Lodge.

MOOT COURTS.—Professors Needham, Clephane, and Stevens.

The third year course will also be carried on by special lectures and the study of selected cases; special courses of reading will be assigned, and each student in the third year will take part in the preparation of cases in the Moot Courts, law and equity, upon such a statement of facts as a client would give to a lawyer in active practice, the cases to be carried through from the commencement of the action to a final hearing, according to rules of procedure prepared by the professor in charge of the Moot Courts; cases may be taken by appeal to the Appellate Moot Court, thus giving the student practice and drill in determining what actions will lie upon a given state of facts, what defences may be interposed, and the various steps in the conduct of cases in court. These courts will be presided over by professors and lawyers from the Washington Bar.

### PATENT LAW COURSE.

A special course in Patent Law and Patent Law Practice will be conducted by Professor Church, giving thorough preparation to those who contemplate entering that department of jurisprudence. This course covers a period of eight months, with two lectures or sessions of the Moot Court each week. The degree of Master of Patent Laws will be conferred upon those who pass satisfactory examinations at the close of the term. Only graduates in law or members of the bar are eligible to the degree, but any person qualified to profit by the instruction offered will be admitted to the course.

### EXAMINATIONS.

Written examinations will be required upon each subject specified in the courses and will be conducted at the conclusion of each subject. At the close of the third year a general review and examination may be had. The standing of the student upon the several examinations and the regularity of his attendance upon the course will determine his right to the degree.

### DEGREE OF BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the

subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

### FEES AND EXPENSES.

The tuition fee for the regular course is eighty dollars per year of eight months; this to be paid in advance, monthly or quarterly, at the option of the student. The tuition fee for the Patent Law course is forty dollars. A charge of ten dollars in all cases is made for diplomas. Board and lodgings, including heat and light, can be obtained in the city at prices ranging from five dollars per week upward.

### LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 2,500 volumes, is open to the students in Law Lecture Hall from nine A. M. to ten P. M.

This library contains the standard text-books, the West Reporter System of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

### ADMISSION TO THE BAR.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as discharging this requirement.

### PRIZES.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. Myron M. Parker, is awarded each year to the

student who passes the best examination for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second editions, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the Third Year Class as shall compete for them and shall pass a successful examination.

Two prizes for excellence in debate are awarded by the Debating Society.

*Prize Awards, 1898.*

A. T. Britton Prize.....	Joseph W. Welsh.
M. M. Parker Prize.....	Forrest P. Tralles.
Edward Thompson Company Prize.....	Walter A. Holden.
First Essay Prize.....	Walter A. Holden.
Second Essay Prize.....	Henry B. Armes.
Third Essay Prize.....	W. M. Holland.
Lee Davis Lodge Prize.....	Edward E. Denison.
First Debater's Prize.....	Walter Scott Smith.
Second Debater's Prize.....	Alvah W. Patterson.

Graduates of the Law School with the degree of Bachelor of Laws are admitted without examination to the School of Comparative Jurisprudence and Diplomacy for the degrees of Master of Laws, Doctor of Civil Law, and Master of Diplomacy.

For catalogues and further information, address the SECRETARY OF THE SCHOOLS OF LAW, 1420 H Street, Washington, D. C.

## STUDENTS OF LAW.

*Seniors, or Candidates for the Degree of Bachelor of Laws.*

Name.	State.	Address.
Barrus, George W. ....	N. H. ....	314 E Street.
Brewer, A. Farley. ....	Mass. ....	1503 Prospect Street.
A. B., Williams College, 1897.		
Brockett, Bluford Wilson ....	Md. ....	3425 Holmead Ave.
Butler, Ulysses. ....	D. C. ....	621 23d Street.
Butts, Joseph Waddell ....	N. Y. ....	918 T Street.
Chapman, Charles McC. ....	N. Y. ....	1912 H Street.
Chick, John Merle. ....	Pa. ....	1110 16th Street.
Clark, Ralph A. ....	Iowa. ....	725 12th Street.
Cooke, Harry Lee. ....	Tenn. ....	Rm. 25 B, P. O. Dept.
Cooksey, Paul. ....	Ky. ....	1319 Vermont Ave.
Coombs, Howard Addison. ....	Ill. ....	Patent Office.

S. B., Worcester Polytechnic  
Institute.

Cooper, George Houston, Jr. ....	Va. ....	1132 5th Street.
Craig, Joseph Webber. ....	Maine ...	1416 N Street.
Cromwell, William Nevarre. ....	D. C. ....	1314 V Street.
Crooks, James W. ....	Ill. ....	303 B Street, S. E.
Daniel, Karl J. ....	Va. ....	1419 F Street.
Davis, Charles Arthur. ....	Md. ....	Takoma Park, D. C.
Davis, Ewin Lamar. ....	Tenn. ....	1301 N Street.
Davis, Sidney Hanson. ....	Md. ....	Takoma Park, D. C.
Delaplane, Hammett S. ....	Va. ....	51 I Street.
Denison, Edward Everett. ....	Ill. ....	809 13th Street.

A. B., Yale University.

Du Mars, John E. ....	Ill. ....	1106 Md. Ave., S. W.
Esterly, Frank C. ....	Minn. ....	1115 E. Capitol St.
Everts, Frank A. ....	Ind. ....	1350 Columbia Road.
Flint, Ralph Norton. ....	N. Y. ....	16 Quincy St., N. E.

M. E., Cornell University, 1894.

Foster, Bertram Grey. ....	N. Y. ....	932 N. C. Avenue.
Foster, Daniel Shays. ....	Pa. ....	19 Iowa Circle.

M. D., Georgetown Univer-  
sity, 1869.

Freeman, Alvan H. ....	Ga. ....	618 22d Street.
Gardner, Henry Finch. ....	N. Y. ....	1115 O Street.

Name.	State.	Address.
Gardiner, John Urquhart.....	Wis.....	907 T Street.
Glover, L. K. C.....	Va.....	1731 13th Street.
Graham, Byron Ulmer.....	D. C.....	516 T Street.
Green, Henry D., Jr.....	Ala.....	1705 M Street.
Gregory, Eugene M.....	N. J.....	927 N Street.
A. B., Harvard University.		
Grim, Thurlow W....	Ind.....	415 4th Street.
Griswold, Stewart C.....	Mich....	1119 Q Street.
Groesbeck, Walter Davis.....	Mich...	Patent Office.
B. S., Michigan Agricultural College.		
Hall, William Fairfax.....	D. C.....	1003 F Street.
Hallam, William Meade.....	Ky.....	504 C Street, S. E.
Harris, Herbert Frederick.....	Pa.....	1115 R. I. Avenue.
A. B., Bucknell University, 1896; A. M., Bucknell University, 1897.		
Harris, Josiah G.....	Ky.....	1319 Vermont Ave.
Hartmann, Charles.....	Mich....	932 O Street.
Hawksworth, Alfred Tennyson.	N. H.....	805 10th Street.
Heth, Robert Mason ...	Va.....	1759 Madison Street.
Hittle, James Monroe.....	Pa.....	1110 16th Street.
B. S., Fredonia Institute, 1897.		
Howard, Clarence V.....	D. C.....	907 13th Street.
Hufty, Laurence.....	Va.....	1143 22d Street.
Hume, F. Charles.....	Texas....	1235 Mass. Ave.
B. Lit., University of Texas.		
Husted, Glenn E.....	Mich....	Post Office Dep't.
Israel, Frank Thomas, .....	Neb.....	1108 8th Street.
Jackson, Daniel Kerfoot.....	Va.....	809 13th Street.
Jacobs, S. Howard.....	Va.....	Falls Church, Va.
Jamison, Paul B.....	Mich....	1511 T Street.
Jansen, Thomas Egbert.....	N. Y....	Room 127, War Dep't.
Keener, William Morse.....	Md.....	1021 8th Street.
Kline, Aubrey..	Va.....	1126 8th Street.
Lienallen, Thomas T.....	Mo.....	805 10th Street.
Mason, W. M.....	D. C.....	1717 De Sales St.
Mattingly, William F., Jr.....	D. C.....	1616 H Street.
A. B., Princeton University, 1896.		



Name.	State.	Address.
May, George T., Jr.....	D. C.....	2119 F Street.
McClure, Charles, Jr.....	Minn.....	1353 Harvard Street. B. L., University of Minne- sota, 1897.
McClure, James B.....	Iowa.....	154 A Street, N. E.
McMullen, Adam.....	Neb.....	1406 S Street. A. B., University of Nebraska, 1896.
McRoberts, Charles Gregory...	D. C.....	302 C Street.
Meekison, Colin C.....	Ohio.....	1232 13th Street.
Merritt, Norman Allan.....	D. C....	2819 14th Street.
Milans, Joseph Hercus.....	D. C.....	1232 N. H. Avenue.
Milburn, Charles Coad.....	Wash'n..	1122 13th Street.
Morgan, T. Frank. ....	Va.....	1416 15th Street.
Murphy, Thomas James.....	N. C.....	1102 8th Street.
Norris, William C.....	Md.....	617 14th Street.
Odor, Cadmus Linden... ..	Ohio.....	86 M Street.
Owen, Charles Wesley.....	Mich....	430 Mass. Avenue.
Parkes, George Preston.....	N. Dak...	1005 8th Street.
Parks, Charles W.....	D. C.....	2149 Florida Ave. C. E., Rens. Polytechnic In- stitute.
Parmelee, George H.....	D. C.....	705 G Street.
Paschal, Samuel Scoville.....	D. C.....	The Victoria.
Patterson, Alvah W.....	Ore.....	502 B Street, N. E.
Pierce, Harry Alleman .....	D. C.....	610 R Street.
Potts, Theron.....	N. Y.....	243 Delaware Ave.
Rastell, Charles Wesley.....	N. J....	Navy Department.
Reader, Jabe C.....	Texas....	1319 Vermont Ave.
Ridgway, Thomas Caldwell....	Ill.....	1632 17th Street.
Rohrback, Howard Lemon....	Penn....	1209 Q Street.
Roots, Edward C.....	Ind.....	722 12th Street.
Seitz, Earle W.....	Mo.....	917 McPherson Sq.
Sloan, Austin Clark .....	Wyo.....	1304 L Street.
Smith, C. Downing.....	Va.....	1212 N. Y. Avenue.
Smith, Charles Dorsey.....	Md.....	29 I Street.
Smith, Edgar A.....	Iowa.....	House of Rep.
Snell, Frank Hiram.....	D. C.....	Fla. and Conn. Aves. A. B., Yale University, 1882.

Name.	State.	Address.
Spaulding, John Cecil.....	Mich. ....	1637 R Street.
A. B., University of Michigan, 1897.		
Stallcup, James Alfred.....	Mo ..... 1807	H Street.
Stewart, Nathaniel B.....	Ga..... 2107	O Street.
A. B., University of Georgia, 1893.		
Thomas, Hillebert Ward.....	Mich..... 1625	R Street.
Thurman, Richard B.....	Utah..... 1337	L Street.
Townsend, George Alfred, Jr.,	Md ..... 229	1st Street, N. E.
Towson, Richard M.....	Va..... 1122	Vermont Ave.
Tyssowski, Joseph Gorham....	D. C. .... 1431	R. I. Avenue.
Vaill, Edward W., Jr.....	..... 210	T Street.
B. S., Worcester Polytechnic Institute.		
Vieth, Henry Alvin.....	Wis.. ...	Dept of Agriculture.
Weimer, George V .....	Mich. ... 1416	N Street.
Wells, Albert Coulter.....	Penn .... 1203	11th Street.
Westcott, Charles D.....	D. C. .... 1414	20th Street.
Wheeler, Levi Woodbury....	N. H. .... 518	M Street.
White, William Frye.....	Maine ...	Sun Building, F St.
A. B., Bowdoin College, 1897.		
Yates, John Browning.....	Va..... 1300	Penn. Avenue.

*First Year Class.*

Name.	State.	Address.
Ake, Charles DeWarenne.....	D. C. .... 601	I Street, N. E.
Anderson, Dwight .....	D. C. .... 307	T Street.
Austin, William Morris.....	D. C. .... 2017	O Street.
B. S., Trinity College (Hart- ford, Conn.), 1898.		
Baker, Curtis T.....	N. J. .... 619	19th Street.
Ballinger, John H.....	Iowa..... 2231	Q Street.
Barclay, Fred Homer. ....	Wyo.....	Hotel Stratford.
Blackwood, Don Piatt.....	W. Va... 1028	25th Street.
Bonifant, John.....	Md..... 1327	I Street.
Boyer, Clyde Edward.....	Ind..... 909	N. C. Avenue.
Boyle, John .....	Penn.....	Petworth, D. C.

Name.	State.	Address.
Bradford, William Rufus.....	S. C.....	1119 6th Street.
Brothers, Maxwell R.....	Miss.....	1919 I Street.
Broughton, William Simmons..	Ill.....	Treasury Dept. Ph. B., University of Chicago.
Browne, Frederick W.....	Iowa.....	2031 H Street.
Burgey, John Morrissey.....	N. Y.....	2020 G Street.
Cameron, Alexander B.....	D. C.....	250 9th Street, N. E.
Cannon, Hal M.....	Ind. Ter..	1422 11th Street.
Champion, Robert.....	D. C.....	1113 I Street, S. E.
Chase, Royden Durfee....	D. C.....	300 R Street, N. E.
Clark, Reed Paige.....	N. H.....	1424 11th Street. B. A., Columbian University, 1898.
Clifton, Horace B.....	D. C.....	2819 G Street.
Connell, John.....	Pa.....	
Conwell, Lewis Colfax..	Iowa.....	Auditor P. O. Dep't.
Cox, Joseph Winston.....	Va.....	Equity Building.
Crossman, Charles Sumner....	Va.....	Falls Church, Va.
Crowley, Claude Stephen .....	Ohio.....	1112 H Street.
Dean, Robert H.....	Ky.....	1605 Lincoln Avenue.
Dodge, Arthur J.....	Wis.....	3401 Holmead Ave.
Dodge, Frederick A.....	Va.....	1119 N Street.
Dodge, Harris B.....	Va.....	601 I Street.
Dryden, Martin Thomas.....	D. C.....	318 6th Street, N. E.
Drysdale, Hugh Paton.....	Mass.....	1223 15th Street. B. A., Williams College, 1897.
Duncan, George Russell.....	Ill.....	1219 Yale Street.
Earle, Wilton H.....	S. C.....	618 22d Street. B. Lit., Furman University, 1898.
Elliott, M. Artells.....	Ark.....	808 11th Street. Ph. B.
Fairbanks, Warren Charles....	Ind.....	1804 Mass. Avenue. A. B., Ohio Wesleyan Univer- sity, 1898.
Fitzgerald, William.....	D. C.....	1416 S Street.
Freeman, Joseph Edwin.....	Ill.....	1770 Mass. Avenue. Ph. B., University of Chicago.

Name.	State.	Address.
Fullilove, Samford C. ....	La. ....	926 Mass. Avenue.
B. A., Centenary College, 1896.		
Fulton, William G. ....	Va. ....	921 I Street.
Gaddess, Eugene L. ....	Va. ....	1432 Binney Street.
Gauss, Herman Charles ....	Conn. ....	24 6th Street, S. E.
Gold, Hunter Boyd ....	Va. ....	714 18th Street.
Goodlove C. ....	Ohio ....	201 T Street.
Gordon, Allen Taylor Caperton.	D. C. ....	6 Cooke Place.
Gordon, Gurdon Wright. ....	Mass. ....	29 I Street, N. E.
B. A., Williams College, 1897.		
Greer, Walter Andrew. ....	Mo. ....	1027 N. Capitol St.
Griffith, William Oglesby. ....	D. C. ....	1428 K Street.
B. S., University of Pennsylvania, 1890; M. E., University of Pennsylvania, 1891.		
Hearn, Wilfred ....	Ark. ....	905 K Street.
Heath, Thomas Ramsdell. ....	D. C. . .	528 Spruce Street.
Herbert, William C. ....	Va. . . .	Alexandria, Va.
Herrick, Samuel. ....	Pa. ....	1644 21st Street.
Holloway, William H. ....	N. C. ....	1638 16th Street.
Hopkins, Marcus Clarence. ....	D. C. ....	817 15th Street.
Houchen, Stanley T. ....	Ind. ....	505 B Street, S. E.
Howard, John C. ....	D. C. ....	1149 N. H. Avenue.
Huggett, Martin Charles. ....	Mich. ....	1119 I Street.
Huidekoper, Frederic Louis. ....	D. C. ....	1705 N. H. Avenue.
B. A., Harvard University, 1896; Christ Church, Oxford, 1898.		
Hume, Robert Scott. ....	Va. ....	1235 Mass. Avenue.
B. A., Yale University.		
Jenks, Richard Leedom. ....	Pa. ....	307 G Street.
Johnson, A. Stephenson. ....	D. C. ....	1315 Yale Street.
Johnson, Benjamin R. ....	N. Y. ....	1916 N Street.
A. B., Hamilton College, 1897.		
Johnson, Walter S. ....	Wash. ....	927 O Street.
Jones, Henry Elihu. ....	Minn. ....	1237 10th Street.
Jones, Horace T. ....	D. C. . .	233 R Street, N. E.
Karch, Charles M. ....	Ohio. ....	1313 H Street.
Ph. B., St. Lawrence.		

Name.	State.	Address.
Kimball, Harry Grant.....	N. Y.....	1916 N Street.
A. B., Hamilton College, 1896.		
La Chance, Leander Hanscom.	Ariz. ....	618 22d Street.
Lewis, Samuel S.....,	Pa. ....	905 H Street.
List, M. Creel.....	Wash....	1623 H Street.
Long, Edward S .....	Ky. ....	117 11th Street, N. E.
Magee, Charles L.....	D. C.....	103 Kentucky Ave.
Mayer, Charles David.....	Cal.....	107 K Street.
McClure, William E.....	Ore.....	909 New York Ave.
A. B., University of Oregon, 1896.		
McCormick, Howard.....	D. C.....	Wash'n Navy Yard.
Merrill, Thomas Sherlock.....	D. C.....	416 T Street.
Metzerott, Oliver S.....	D. C.....	1806 K Street.
B. S., Princeton University.		
Miller, Thomas Marshall, Jr....	La.....	1913 Penn. Avenue.
Minnegerode, Fitz Lee .....	Va.....	414 Prince Street, Alexandria, Va.
Moore, Edward S.....	Wis .....	467 M Street.
Nourse, Philip Beecher..	Va.....	West End, Va.
Pagelsen, Edward N.....	Mich ....	1308 I Street.
B. S., Michigan Agricultural College, 1889.		
Parker, Brainard Warner.....	D. C.....	1829 19th Street.
B. A., Yale University, 1898.		
Parkman, Charles Howard.....	D. C.....	802 D Street, N. E.
Peters, Arthur Stephens.....	D. C. ...	1354 Columbia Road.
Plant, Arthur G.....	D. C.....	918 M Street.
Plumley, Walter Preston.....	D. C.....	408 H Street.
Proctor, Alfred Waters.....	Mass.....	1113 O Street.
Rawlings, Richard Galt.....	D. C.....	604 9th Street.
Reed, Harry Day..	Ga. ....	2408 Penn. Avenue.
Reinohl, William Parker.....	D. C.....	611 Q Street.
Richardson, Harris P.....	N. Y.....	705 East Capitol St.
Ryan, Philip J .....	N. Y.....	1411 Mass. Avenue.
U. S. Naval Academy, 1883.		
Sabourin, George F.....	Ia. ....	Geological Survey.
Schell, Augustus P.....	Ky .....	440 K Street.
Schuldt, Gus A.....	D. C.....	603 Penn. Ave., S. E.

Name.	State.	Address.
Sisson, Harry R.....	Ohio.....	440 K Street.
Slade, William Adams.....	R. I.....	205 I Street.
B. P., Brown University, 1898.		
Soult, Will Eugene.....	Colo.....	417 N. Y. Avenue.
Spear, Edwin E.....	D. C.....	2650 14th Street.
A. B., Bowdoin College, 1898.		
Spurrier, William Atwell.....	Penn.....	24 K Street.
Stephens, Robert Allan.....	Ill. ....	Winder Building.
Stewart, Harry W.....	N. Y.....	1729 F Street.
Stuart, Albert Rhett.....	S. C.....	1226 15th Street.
B. A., Columbia University, 1898.		
Sumner, George W.....	Neb.....	1404 L Street.
S. B., Massachusetts Institute of Technology.		
Talbott, James David.....	Ill.....	929 Farragut Square.
Turner, William Burke.....	Ore.....	502 B Street, N. E.
Twinn, Clark James.....	N. Y.....	1760 Q Street.
Veeder, Charles Adelbert.. . .	Wis.....	200 Indiana Avenue.
Weaver, Louis William.....	D. C.....	208 Md. Ave., N. E.
Whitney, Fred P.....	N. Y. . .	1517 Columbia St.
Williams, Walter Beall.....	D. C.....	1319 8th Street.
Wilson, Charles McCormack...	D. C.....	2909 Q Street.
Wiltse, Franklin Steele.....	N. Y.....	2009 Q Street.
Wingfield, Thomas Julian.....	Va.....	1519 T Street.
Wollard, John H.....	D. C.....	601 N. C. Avenue.
Woodworth, George Keen.....	D. C.....	1424 S Street.
Mech. E., Cornell University, 1896.		
Wooster, Julian S.....	Conn.....	Patent Office.
Workman, Henry C.....	Mich.....	1325 Kenesaw Ave.
B. S., Columbia University.		
Yela, Joaquin, Jr.....	Guatemala	The Cairo.
A. B., National Institute, Guatemala, 1890; D. D. S., New York, 1895.		
Yellott, Robert E. Lee.....	Va.....	1613 O Street.

*Students in Patent Law.*

Name.	State.	Address.
Bartlett, John F . . . . .	Mass. . . . .	1721 P Street. LL. M., National University, 1897.
Becker, William J. . . . .	Wis. . . . .	1914 16th Street. M. E., Royal Polytechnic, Munich, 1891; B. L., Co- lumbian University, 1898.
Billman, Obed Calvin. . . . .	Ohio. . . . .	917 N. Y. Avenue. LL. B., Chicago Correspond- ence Law School, 1897.
Buck, Arthur A. . . . .	Mass. . . . .	700 20th Street. S. B., Massachusetts Institute of Technology, 1893; B. L., Columbian University, 1897.
Clay, F. W. H. . . . .	Ky . . . . .	1618 17th Street. LL. M., Columbian University.
Doyle, Bertram Martin . . . . .	Ky . . . . .	934 I Street. Ph. B., Riverside Seminary, 1892; LL. B., Columbian University, 1896; LL. M., Columbian University, 1897. C. E., Cornell University.
Duncan, Harry Lee. . . . .	N. Y. . . . .	1325 Kenesaw Ave. LL. B., New York Law School; M. E., Columbian Univer- sity.
Eakle, Edward H. . . . .	D. C. . . .	1108 E. Capitol St. LL. B., Columbian University; LL. M., Columbian Univer- sity.
Farnsworth, F. Philip. . . . .	D. C. . . . .	1618 17th Street. Ph. B., Yale University, 1894; LL. B., Yale University, 1897.

Name.	State.	Address.
Ferguson, Thomas H . . . . .	Mich. . . . .	Patent Office. Ph. B., University of Michigan, 1895; B. S., University of Michigan, 1896; LL. B., De- troit College of Law, 1897.
Goodwin, Edward C. . . . .	Mass. . . . .	1005 H Street.
Greist, Lewis T. . . . .	Ind. . . . .	310 12th Street, N. E. B. L., Columbian University, 1898.
Harris, Charles Gantt . . . . .	D. C. . . . .	1917 Kolorama Ave. B. S., Worcester Polytechnic Institute; B. L., Columbian University, 1898.
Hatch, William M. . . . .	Vt. . . . .	1316 Wallach Place. A. B., Dartmouth College; B. L., Columbian Univer- sity; M. L., Columbian University.
Hodges, Vernon E. . . . .	D. C. . . . .	800 H Street. LL. M., National University.
Johnson, A. Roland. . . . .	D. C. . . . .	1706 9th Street. LL. B., Columbian Univer- sity, 1895; LL. M., Co- lumbian University, 1896; LL. M., National Univer- sity, 1897.
Kinnan, Arthur F. . . . .	Mich. . . . .	Patent Office. B. S., Michigan State College; LL. B., Columbian Univer- sity, 1895.
Lawson, William C. . . . .	D. C. . . . .	312 Indiana Avenue.
Moore, David Pelton. . . . .	D. C. . . . .	2029 O Street. B. L., Columbian University, 1897; M. L., Columbian University, 1898.



Name.	State.	Address.
Parker, Charles W.....	Va.....	626 F Street. LL. B., Columbian University, 1896; M. L., Columbian University, 1897.
Powell, Ralph C.....	Ohio.....	1618 17th Street. A. B., Yale University, 1892; LL. B., National University, 1896; LL. M., National University, 1898.
Prentiss, Spencer B.....	D. C.....	1218 9th Street. B. S., Columbian University; 1895; B. L. Columbian, University, 1897; M. L., Columbian University, 1898.
Reid, William H.....	Pa.....	2202 Decatur Place. M. E., Polytechnic, Pa.
Ruckman, Webster S.....	Mich.....	Patent Office. B. S., University of Michigan, 1887; B. L., Columbian University, 1897; LL. M., National University, 1898.
Saul, John A.....	D. C.....	1207 6th Street. LL. M., Georgetown University.
Seibold, Arthur Bingham.....	D. C.....	110 Md. Ave., N. E. LL. B., Columbian University, 1896; M. L., Columbian University, 1897.
Smith, Louis C.....	Mass.....	911 3d Street. B. S., Worcester Polytechnic Institute; LL. B., National University; LL. M., National University.

Name.	State.	Address.
Tucker, George P.....	Neb.....	633 G Street.
B. S., Worcester Polytechnic Institute; LL. B., National University; LL. M., Na- tional University.		
Wills, Walter H.....	D. C.....	312 Indiana Avenue.
LL. B., National University; LL. M., National University.		

*Recapitulation.*

Senior Class....	107
First Year Class....	121
Students in Patent Law.....	29
Total.....	<hr/> 257

# THE SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.

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## GRADUATE COURSE.

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### THE FACULTY.

BENAIAH L. WHITMAN, D. D., *President*,  
Political History and Science.

CHARLES W. NEEDHAM, LL. M., *Dean*,  
Comparative Jurisprudence; Transportation and Interstate  
Commerce Law.

HON. JOHN M. HARLAN, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Conflict of Laws; Comparative Constitutional Law.

HON. DAVID J. BREWER, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
International Law.

HON. JOHN W. FOSTER, LL. D.  
(Ex-Secretary of State),  
Diplomacy and Treaties of the United States; Duties of  
Ambassadors, Ministers, and Consuls; Boards of  
Arbitration.

HON. DAVID J. HILL, LL. D.  
(Assistant Secretary of State),  
European Diplomacy and Treaties.

HON. WILLIAM WIRT HOWE  
(of the New Orleans Bar),  
Ancient Law, Roman Law, Mediæval and Modern Civil Law.

HON. LYMAN J. GAGE  
(Secretary of the Treasury),  
Lecturer on Public Finance, Money, and Credits.

HON. WILLIAM P. WILSON, Sc. D.  
(Director of the Philadelphia Commercial Museum),  
International Trade and Commercial Geography.

JOSEPH FRENCH JOHNSON, A. B.,  
Money, Credits, and Foreign Exchange.

HON. J. L. M. CURRY, LL. D.  
(Sometime Minister to Spain),  
Jurisprudence of Spain.

HON. WILLIS VAN DEVANTER  
(Assistant Attorney General),  
Equity Pleading and Practice.

HON. MARTIN A. KNAPP, LL. D.  
(Chairman Interstate Commerce Commission),  
Lecturer on Interstate Commerce Law.

Special lecturers upon the jurisprudence of England and her Colonies, France, Germany, Austro-Hungary and Italy, and other subjects will be announced at the opening of the term in October, 1899.

The following courses in the Law School may be taken by students of this School in the course for the degree of Master of Laws without extra charge:

Constitutional Law,  
HON. JOHN M. HARLAN, LL. D.

Equity Jurisprudence,  
HON. DAVID J. BREWER, LL. D.

History of American and English Law,  
CHARLES W. NEEDHAM, LL. M.

Moot Courts, and Courses in Common Law Practice and Pleading.

CHARLES RAY DEAN, LL. B.,  
Secretary of the Schools of Law.

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At the annual meeting of the Board of Trustees of the University in June, 1898, an ordinance was adopted establishing, as a department of the University, "The School of Comparative Jurisprudence and Diplomacy."

This school was opened with appropriate ceremonies at the University November 15, 1898. President McKinley, with members of his Cabinet and many other distinguished men in public life, were present. Addresses were delivered by B. L. Whitman, D. D., President of the University; Charles W. Needham, LL. M., Dean; Hon. John M. Harlan, LL. D., Associate Justice of the Supreme Court of the United States; Hon. David J. Brewer, LL. D., Associate Justice of the Supreme Court of the United States; Hon. Lyman J. Gage, Secretary of the Treasury; Sir Wilfrid Laurier, Premier of Canada, and Hon. John W. Foster, ex-Secretary of State.

On January 3, 1899, Law Lecture Hall was completed and dedicated. This building is located at 1420 H Street, adjoining University Hall; it is very complete, having three lecture-rooms, a large library, and ample office rooms, the entire building being devoted to the use of the Schools of Law.

### OBJECTS.

The design of this school is to afford a training in the subjects of higher legal knowledge and the history, science, and practice of international law and diplomacy. Its courses are intended for lawyers, students of jurisprudence, and persons who desire appointments in the public, diplomatic, and consular service of the United States. To be an international lawyer or diplomatist one must, in addition to an education which makes one a scholar and lawyer, have special knowledge of the higher and broader subjects of the law and the intercourse between States and nations. It is the special object and purpose of this school to furnish instruction and opportunities for study that will fit men for the practice of international law and for positions in the public, diplomatic, and consular service.

## ACADEMIC YEAR.

The academic year 1899-1900 will begin on Monday, October 2, 1899, and will end Wednesday, May 30, 1900. There will be a recess beginning Saturday, December 23, 1899, and ending Tuesday, January 2, 1900. Lectures will be resumed Wednesday, January 3.

## COURSES OF INSTRUCTION.

The class-room work for each class will occupy ten hours per week, two hours every day except Saturday. These hours are arranged by schedule, and come between five and eight o'clock.

*First Year.*

CONFLICT OF LAWS. One hour per week, one-half year. PROFESSOR HARLAN.

COMPARATIVE CONSTITUTIONAL LAW. One hour per week, one half year. PROFESSOR HARLAN.

INTERNATIONAL LAW. One hour per week. PROFESSOR BREWER.

POLITICAL HISTORY AND POLITICAL GEOGRAPHY. One hour per week. THE PRESIDENT.

ROMAN LAW. One hour per week, one-half year. PROFESSOR HOWE.

HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES. One hour per week, one-half year. PROFESSOR FOSTER.

TRANSPORTATION AND INTERSTATE COMMERCE LAW. One hour per week. PROFESSOR NEEDHAM.

EQUITY PLEADING AND PRACTICE. One hour per week, one-half year. PROFESSOR VAN DEVANTER.

Five hours each week will be devoted to class discussions and conferences upon the foregoing subjects, conducted by professors and instructors.

*Second Year.*

POLITICAL SCIENCE. One hour per week. THE PRESIDENT.

HISTORY OF DIPLOMACY OF THE UNITED STATES, ORGANIZATION OF THE STATE DEPARTMENT, DUTIES OF AMBASSADORS, MINISTERS,

AND CONSULS, AND INTERNATIONAL ARBITRATION. One hour per week. PROFESSOR FOSTER.

CONSTITUTIONAL LAW AND JURISPRUDENCE OF THE UNITED STATES. PROFESSOR HARLAN.

HISTORY OF EUROPEAN DIPLOMACY AND TREATIES AND EUROPEAN DIPLOMATISTS. One hour per week. PROFESSOR HILL.

ROMAN LAW. One hour per week. PROFESSOR HOWE.

COMPARATIVE JURISPRUDENCE. In charge of the DEAN. (Special lecturers for each subject.) Three hours per week.

(a) History and General Principles of the Laws of India, Egypt, Palestine, and Greece.

(b) History and General Principles of Roman Law, derived from Greece and developed in Rome to the time of Justinian.

(c) A General View of the Law in Europe during the Middle Ages.

(d) The Extension of the Roman Law into some of the great Modern States.

(e) The Rise of the Common Law and its Extension into some of the great Modern States.

(f) Jurisprudence of England and her Colonies, France, Germany, Austro-Hungary, Italy, and Spain.

INTERNATIONAL LAW. One hour per week, one-half year. PROFESSOR BREWER.

INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY. One hour per week, one-half year. PROFESSOR WILSON.

FINANCE. One hour per week. PROFESSOR JOHNSON.

(a) Theory and Functions of Money. (b) Credits, or the Substitutes for Money. (c) Banking. International Payments and Foreign Exchange.

PUBLIC FINANCE.

(a) Organization of the Treasury Department. (b) Revenues—internal and customs. (c) Bond issues. (d) Appropriations. (e) Disbursements.

Special Lectures and Class Discussions and Conferences, five hours per week.

## METHOD OF INSTRUCTION AND STUDY.

Professors will conduct the study of the subject to which they are assigned by lectures, required courses of reading, and class discussions and conferences. Where a subject is divided into different branches or subdivisions, special lecturers will be introduced who are specially qualified to speak upon the subject assigned.

All subjects will be studied historically and comparatively and with a view to arriving at the present conditions and state of the law.

Class discussions and conferences will follow each lecture, and students will be encouraged to make original research and report their work to the class.

**COMPARATIVE JURISPRUDENCE.** This course will begin with the study of the laws of primitive people, the laws of India, Egypt, Palestine, and Greece; following this with a study of the Roman Law as derived from Greece and developed in Rome itself, down to the time of Justinian; then taking a general view of the law in Europe during the Middle Ages and tracing the Roman Law to the modern nations in which it now prevails. The rise of the Common Law and its extension to the nations in which it prevails will be carefully considered, and then the jurisprudence of the great modern States will be studied, giving to each a special lecture course, with class discussions. The relations of England to her colonial empire, and the federal system existing in Canada will receive special attention. All statutory laws which have a bearing upon the exercise of national power and which affect the relations of nations with each other, as well as the fundamental law, will be studied in each course.

This subject will be under the general supervision of the Dean, and lecturers will be appointed upon the jurisprudence of each nation. These lecturers will be selected with reference to their special knowledge of the subject assigned them.

**COMPARATIVE CONSTITUTIONAL LAW.** This subject will be studied by first considering in a thorough and comprehensive manner the subjects and the scope of the Constitution of the United States; next taking the constitutions of other nations, studying their sources and subjects, comparing their provisions



in the light of judicial interpretation by the highest courts of the country with the Constitution of the United States as construed by the Supreme Court of the United States, giving the student a thorough knowledge of the statement of constitutional law in the various countries, the scope of each, the subjects treated, the judicial construction, and the points in which our Constitution differs from that of other nations.

**INTERNATIONAL LAW.** This subject will be studied with reference to its sources, its sanctions, its present condition, and the lines and scope of its probable development.

**HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.** The course of lectures on American Diplomacy will embrace the duties of ambassadors and ministers; duties of consuls; treaties, their method of negotiation, various forms of, attitude of Congress, rulings of Supreme Court, and historical sketch of most important American treaties; arbitration, principles of, organization and method of procedure; and the Monroe Doctrine.

**HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.** Approaching diplomacy not merely as the science of the relations of sovereign States and the art of conducting negotiations between them, but primarily as the actual transaction of international business, the course of instruction will aim to show what European diplomacy really is by the examination of its history. As all important international transactions are summed up and embodied in definite treaties and conventions, the subject can be most profitably discussed by an analysis of these documents, supplemented by an account of the persons, interests, events, forms, ceremonies, and negotiations that have contributed to their development. By this method it is hoped that it may be possible not only to derive inductively the principles of diplomacy as an art and as a science, but also to present an exposition of the present international relations of Europe as determined by the great treaties, from the Congress of Westphalia to the Congress of Berlin, showing the existing affinities, antagonisms, and tendencies of the chief European powers.

**POLITICAL HISTORY AND SCIENCE; POLITICAL GEOGRAPHY IN ITS RELATION TO POLITICAL HISTORY.** The work in this depart-

## METHOD OF INSTRUCTION AND STUDY.

Professors will conduct the study of the subject to which they are assigned by lectures, required courses of reading, and class discussions and conferences. Where a subject is divided into different branches or subdivisions, special lecturers will be introduced who are specially qualified to speak upon the subject assigned.

All subjects will be studied historically and comparatively and with a view to arriving at the present conditions and state of the law.

Class discussions and conferences will follow each lecture, and students will be encouraged to make original research and report their work to the class.

**COMPARATIVE JURISPRUDENCE.** This course will begin with the study of the laws of primitive people, the laws of India, Egypt, Palestine, and Greece; following this with a study of the Roman Law as derived from Greece and developed in Rome itself, down to the time of Justinian; then taking a general view of the law in Europe during the Middle Ages and tracing the Roman Law to the modern nations in which it now prevails. The rise of the Common Law and its extension to the nations in which it prevails will be carefully considered, and then the jurisprudence of the great modern States will be studied, giving to each a special lecture course, with class discussions. The relations of England to her colonial empire, and the federal system existing in Canada will receive special attention. All statutory laws which have a bearing upon the exercise of national power and which affect the relations of nations with each other, as well as the fundamental law, will be studied in each course.

This subject will be under the general supervision of the Dean, and lecturers will be appointed upon the jurisprudence of each nation. These lecturers will be selected with reference to their special knowledge of the subject assigned them.

**COMPARATIVE CONSTITUTIONAL LAW.** This subject will be studied by first considering in a thorough and comprehensive manner the subjects and the scope of the Constitution of the United States; next taking the constitutions of other nations, studying their sources and subjects, comparing their provisions

in the light of judicial interpretation by the highest courts of the country with the Constitution of the United States as construed by the Supreme Court of the United States, giving the student a thorough knowledge of the statement of constitutional law in the various countries, the scope of each, the subjects treated, the judicial construction, and the points in which our Constitution differs from that of other nations.

**INTERNATIONAL LAW.** This subject will be studied with reference to its sources, its sanctions, its present condition, and the lines and scope of its probable development.

**HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.** The course of lectures on American Diplomacy will embrace the duties of ambassadors and ministers; duties of consuls; treaties, their method of negotiation, various forms of, attitude of Congress, rulings of Supreme Court, and historical sketch of most important American treaties; arbitration, principles of, organization and method of procedure; and the Monroe Doctrine.

**HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.** Approaching diplomacy not merely as the science of the relations of sovereign States and the art of conducting negotiations between them, but primarily as the actual transaction of international business, the course of instruction will aim to show what European diplomacy really is by the examination of its history. As all important international transactions are summed up and embodied in definite treaties and conventions, the subject can be most profitably discussed by an analysis of these documents, supplemented by an account of the persons, interests, events, forms, ceremonies, and negotiations that have contributed to their development. By this method it is hoped that it may be possible not only to derive inductively the principles of diplomacy as an art and as a science, but also to present an exposition of the present international relations of Europe as determined by the great treaties, from the Congress of Westphalia to the Congress of Berlin, showing the existing affinities, antagonisms, and tendencies of the chief European powers.

**POLITICAL HISTORY AND SCIENCE; POLITICAL GEOGRAPHY IN ITS RELATION TO POLITICAL HISTORY.** The work in this depart-

ment is designed to put the student in possession of the main results of political development, enabling him to follow the course of history, both in its geographical and in its political movement, with special reference to the structure and influence of the States whose work has been worth most to the world.

**FINANCE.** This subject will be treated broadly with reference to international relations in commerce and banking. It will consider the nature and functions of money and credits and their international circulation; also the subject of Public Finance, including the sources of government revenues, bond issues, taxation, the disbursement of the revenues, and the organization of the Treasury Department.

**INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.** This course will treat of the products of the United States which are the subjects of international trade; where like products are grown or manufactured, and the markets for the same, giving the general currents or geography of trade and commerce and showing how affected by treaties and legislation and the services of diplomatic and consular agents of the United States.

**TRANSPORTATION AND INTERSTATE COMMERCE LAW.** This subject will be treated historically, beginning with the public highway, the use of navigable waters, and the construction and operation of canals and railroads; observing the rights of the public; the relations of owners of railroads to the management and the public; theory and practical working of competition and combination; legislative control, and reviewing the Interstate Commerce Law and the decisions thereunder.

### SPECIAL COURSE.

For the year beginning October, 1899, there will be a special course in Practice for the students who have pursued a two-years' undergraduate course in any law school, who have taken the degree of Bachelor of Laws, and who desire to enter this School for the degree of Master of Laws. This will include, in addition to the regular course for the first year, Common Law Pleading, Common Law Practice, and Moot Court work.

## ADMISSION.

All students who have taken the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Laws in the Columbian University or any other university requiring an equal amount of study for the degree, and all others who have done work equivalent to that required for either of these degrees, and who pass a satisfactory examination before the Faculty of the School are entitled to admission for the two-years' course as candidates for the degree of Master of Diplomacy or the degree of Doctor of Civil Law. Students who have taken the degree of Bachelor of Laws in this or any other university requiring an equal amount of study for this degree will be admitted to the first year of the course as candidates for the degree of Master of Laws. Men who have received the degree of Doctor of Civil Law or its equivalent may enter for the one-year course for the degree in Diplomacy.

## EXAMINATIONS.

Examinations will be held at the conclusion of each subject, and a thesis will be required of each student upon a topic covered by some part of the course to be selected by the student, subject to the approval of the faculty.

## PRIZES.

A prize of \$50, called "The Britton Prize" in honor of its donor, Col. Alexander T. Britton, is awarded each year to the student who passes the best examination for the degree of Master of Laws.

A prize, offered by the Edward Thompson Company, of a set of the Encyclopedia of Law, first or second editions, or a set of the Encyclopedia of Pleading and Practice, is awarded to the student in this School who shall write the best thesis on some legal subject, to be assigned by the Faculty.

## DEGREES.

This School provides a graduate course leading to the degrees of Master of Laws, Doctor of Civil Law, and Master of Diplo-

macy. Students entering for the degree of Doctor of Civil Law will not be required to take all of the subjects in Diplomacy. Students entered for the degree of Master of Diplomacy will not be required to take all of the legal subjects. After receiving the degree of Doctor of Civil Law, students may take the remaining work in Diplomacy, completing it in one year, and receive the degree of Master of Diplomacy.

### TUITION FEES.

The tuition fee is eighty dollars for each year, payable monthly or quarterly, at the option of the student, in advance.

Students will be required to present tickets showing the payment of the tuition fee before admission to the lectures.

There are no extra charges in the School except for diploma. Publications issued in connection with the work are furnished to students at cost.

Any person approved by the Dean may attend the lectures and have the benefit of the examinations upon paying the tuition fee; but no person will be entitled to a degree who does not enter in accordance with the requirements named under the head of "Admission."

For further information and application blanks for admission, address the SECRETARY OF THE SCHOOLS OF LAW, 1420 H Street, Washington, D. C.

### STUDENTS, 1898-1899.

#### *First Year.*

Name.	State.	Residence.
Able, R. Felder.....	S. C.....	911 M Street.
LL. B., Columbian University; LL. M., Columbian University, 1896.		
Allen, Charles Kissam.....	N. Dak....	1828 Jefferson Place.
LL. B., National University; LL. M., National University.		
Alward, I. Q. H.....	N. J.....	1518 Caroline Street.
Auer, Harry Anton.....	D. C.....	315 S Street, N. E.
LL. B., Columbian University, 1898.		

Name.	State.	Address.
Bingham, Goundry W. .... LL. B., Georgetown University, 1898.	Ala. ....	802 11th Street.
Brown, Harry J. .... B. S., Dartmouth College, 1895; LL. B., Columbia University, 1897.	N. H. ....	1702 14th Street.
Burnham, Royal E. .... LL. B., Columbia University, 1898.	D. C. ....	103 C Street, S. E.
Bynum, Dixon H. .... LL. B., Columbia University, 1898.	Ind. ....	1425 R Street.
Cahill, Thaddeus. .... LL. B., Columbia University, 1892; LL. M., Columbia University, 1893.	N. Y. ....	1808 16th Street.
Call, Lewis W. .... B. S., Kansas Agricultural College, 1883; LL. B., Columbia, 1888; LL. M., Columbia University, 1889.	Kans. ....	1249 Kenesaw Ave
Campbell, M. K. .... LL. B., Columbia University, 1898.	Ill. ....	Post Office Dept.
Carr, Wilbur J. .... LL. B., Georgetown University, 1894.	N. Y. ....	1115 M Street.
Catlett, U. S. .... LL. B., Columbia University, 1893; LL. M., Columbia University, 1894.	Tenn. ....	511 Spruce Street.
Chase, George Phillips. .... B. S., University of Pennsylvania, 1895; LL. B., Columbia University, 1898.	D. C. ....	12 Iowa Circle.
Chesley, Willoughby S. .... LL. B., Columbia University, 1898.	Md. ....	The Cairo.
Church, Frank M. .... B. S., Georgetown (Ky.), 1896; LL. B., Columbia University, 1898; LL. M., Columbia University, 1898.	N. J. ....	900 K Street.
Clark, Charlton M. ... LL. B., National University.	Miss. ....	626 I Street.

Name.	State.	Address.
Colladay, Edward Francis..... LL. B., Columbian University, 1898.	Kas.....	1234 I Street.
Collins, Franklin W.....	Neb.....	The Concord.
Crist, Wiley..... LL. B., Columbian University, 1898.	Ill.....	1702 R Street.
Crosthwaite, F. B.....	Mich.....	1329 Whitney Ave.
LL. B., Columbian University, 1887.		
Dalton, Alfred S.....	N. C.....	The Hamilton.
LL. B., Georgetown University; LL. M., National University.		
Dean, Charles Ray.....	D. C. ...	927 O Street.
Ph. B., Chicago University, 1877; LL. B., Columbian University, 1882.		
Denison, Edward Everett.....	Ill.....	809 13th Street.
A. B., Yale University, 1896.		
Dennis, T. Fletcher.....	Ill.....	1615 Florida Avenue
A. M., Illinois College; LL. B., LL. M.		
Disch, H. G.....	Wis.....	621 8th Street, N. E.
LL. B., Columbian University, 1898.		
Doyle, John Thomas .....	N. Y.....	2104 Wyoming Ave.
LL. B., Columbian University, 1886.		
Edwards, O. Ellery, Jr .....	N. Y.....	1906 H Street.
B. S., Alabama Polytechnic Institute; LL. B., Columbian University.		
Evans, Samuel H.....	Va.....	1317 R Street.
LL. B., Columbian University, 1898.		
Fowler, Owen H.....	D. C.....	1425 N. Y. Avenue.
LL. B., Columbian University, 1898.		
Garland, William Howard.....	D. C.....	919 I Street.
Gibson, Frederick Power.....	Ala .....	1121 Harvard Street.
A. B., University of Alabama, 1894; LL. B., Georgetown University, 1898.		
Gray, John P.....	Idaho....	1621 13th Street.
LL. B., Columbian University, 1898.		



SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 177

Name.	State.	Address.
Guynes, Charles Oscar..... B. L., Mississippi College, '95; LL. B., Columbian University, 1898.	Miss.....	1206 K Street.
Haddock, W. Rush..... LL. B., State University of Iowa.	Iowa. ...	The Litchfield.
Halford, A. J.. . . . .	Ind . . . . .	1622 22d Street.
Handy, Fred C..... LL. B., Columbian University, 1898.	Va. . . . .	1331 12th Street.
Hardy, Robert S.....	Miss.....	1106 Md. Ave., S.W.
Harris, John T..... LL. B., Columbian University, 1898.	Mo.....	940 K Street.
Healy, Peter J..... LL. B.	Minn.....	218 N. J. Avenue.
Hemmings, Frederick Leith... LL. B., Columbian University, 1898.	Ill.....	1461 Florida Ave.
Holcombe, John W..... A. B., A. M., LL. B.	Ind.....	1829 Corcoran St.
Holden, Walter A..... LL. B., Columbian University, 1898.	Conn....	815 15th Street.
Jackson, E. Hilton..... LL. B., Columbian University, 1892; LL. M., Columbian University, 1893; A.M., Columbian University, 1894.	D. C.....	809 13th Street.
Johannes, George..... LL. B., Columbian University, 1898.	D. C.....	814 C Street, S. E.
Johnson, Livingston S..... LL. B., Columbian University, 1898.	Va... ..	1460 Corcoran S
Jones, Richard Henry..... LL. B., Georgetown University, 1898.	Ala . . . . .	316 C Street.
Kellogg, Charles Jirah..... LL. B., National University, 1894; LL. M., National University, 1897; LL. M., Columbian University, 1898.	La... ..	1227 M Street.

Name.	State.	Address.
Keyser, Adolph Gustav..... LL. B., Columbia University, 1898.	D. C.....	2019 Mass. Avenue.
Kiggins, Frank M..... A. B., Vanderbilt University; LL. B., Georgetown University; LL. M., Georgetown University.	D. C.....	1213 Q Street.
Lee, Harry Holbrook..... LL. B., Columbia University, 1898.	Ohio.....	1620 15th Street.
Linkins, Charles..... LL. B., Columbia University, 1898.	D. C.....	1923 G Street.
Mackey, George D., Jr.... LL. B., Columbia University, 1897; LL. M., Columbia University, 1898.	N. J.....	Congressional Hotel.
McKinley, J. William..... LL. M., National University, 1893.	D. C.....	1351 Harvard Street.
Matthews, Charles Eugene.... LL. B., Columbia University, 1898.	Ok. Ter..	6th Auditor's Office.
Meritt, Edgar B..... LL. B., Georgetown University, 1898.	Ark.....	202 E Street.
Miller, Claude E..... LL. B., Columbia University.	Pa.....	1339 15th Street.
Mills, Edward P..... LL. B., Columbia University.	Va.....	2424 Penna. Avenue.
Moon, John B..... LL. B., Georgetown University; LL. M., Georgetown University.	Ill.....	306 C Street.
Moulton, Alston B.... B. S., Worcester Polytechnic Institute; LL. B., Columbia University, 1898.	Mass.....	1721 P Street.
Nelms, William H..... LL. M., Georgetown University, 1898.	Ill.....	111 E Street.
Ogden, Herbert G., Jr..... M. E., Cornell University, 1896; LL. B., Columbia University, 1898.	D. C.....	1610 Riggs Place.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 179

Name.	State.	Address.
Oliver, Robert Taylor..... LL. B., Columbian University, 1898.	D. C.....	1725 Riggs Place.
Pool, Solomon C..... LL. B., Georgetown University, 1897; LL. M., Georgetown University, 1898.	N. C.....	Treasury Dept.
Rask, Henry G. .... LL. B., Georgetown University, 1896.	N. Y.....	Hotel Varnum.
Richardson, Charles F. P..... A. B., Harvard University.	D. C.....	1812 I Street.
Ruffin, Thomas..... LL. B., Georgetown University, 1896; LL. M., Georgetown University, 1897.	N. C.....	1311 20th Street.
Schuyler, Walter Farnam..... LL. B., University of Denver, 1898.	Colo.....	1113 11th Street.
Sellhausen, Armin A..... LL. B., Columbian University, 1898.	D. C.....	510 D Street, S. E.
Semmes, Alexander H..... LL. B., National University.	D. C.....	2204 Q Street.
Shreve, Charles S., Jr..... LL. B., Columbian University, 1897.	D. C.....	1543 8th Street.
Smith, Charles Magill..... LL. B., National University, 1896; LL. M., National University, 1897.	Va.....	1117 G Street.
Smith, Walter Scott..... A. B., Lineville College, '96; LL. B., Columbian University, 1898.	Ala.....	200 D Street.
Specht, Augustus Franklin. ... LL. B., Columbian University, 1897; LL. M., Columbian University, 1898.	Penn.....	445 N. J. Ave., S. E.
Stamper, William Stephen. ... LL. B., Columbian University, 1898.	Va... ..	Dept. of Agriculture.
Stansell, Wallace K. .... LL. M., Georgetown University.	Ga.....	1303 N Street.

Name.	State.	Address.
Strasburger, Milton Z.....	D. C.....	631 H Street. LL. B., Georgetown University, 1897; LL. M., Georgetown University, 1898.
Tait, Galen L.....	Neb.....	1718 Q Street. LL. B., Columbian University, 1898.
Tindall, Philip.....	D. C.....	2103 California Ave. LL. B., Columbian University, 1898.
Tralles, Forest P.....	D. C.....	Cor. 11th and F Sts. LL. B., Columbian University, 1898.
Varney, Walter U.....	Va.....	St. Elmo, Va. LL. B., Columbian University, 1898.
Via, Lemuel R.....	Va.....	802 11th Street. LL. B., Georgetown University.
Warfield, Frederic P.....	N. Y.....	1916 N Street. A. B., Hamilton College.
Watts, Reuben B.....	Ala.....	Bur. of Eng. & Prtg. LL. B., Georgetown University.
Weare, Joseph.....	Ill.....	Lincoln Hotel. B. S., C. E., University of Michigan.
Weaver, Harry O.....	Ohio.....	802 A Street, N. E. LL. B., Columbian University, 1896.
Webster, William Grant .....	D. C.....	A. B., Harvard University; LL. M., Columbian University.
Weissenhagen, John P.....	Mich.....	1830 H Street.
Wells, Robert Wesley.....	Kans.....	Hyattsville, Md. LL. B., Kansas State University; LL. M., Columbian University, 1898.
Yung Kwai .....	China....	1506 R Street. A. B., Yale University, 1884.
Total.....		90

This School having been opened in 1898, there was no second-year class.

# THE MEDICAL SCHOOL.

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## THE FACULTY.

BENAIAH L. WHITMAN, D. D.,  
President.

E. A. DE SCHWEINITZ, PH. D., M. D.,  
Dean and Professor of Chemistry and Toxicology.

J. FORD THOMPSON, M. D.,  
Professor of Surgery and Clinical Professor of Surgery.

WILLIAM W. JOHNSTON, M. D.,  
Professor of the Theory and Practice of Medicine and Professor  
of Clinical Medicine.

ALBERT F. A. KING, A. M., M. D.,  
Professor of Obstetrics and the Diseases of Women and Chil-  
dren, and Dean Emeritus.

D. WEBSTER PRENTISS, A. M., M. D.,  
Professor of Materia Medica and Therapeutics and Clinical  
Professor.

D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy and Clinical Ophthalmology.

WILLIAM P. CARR, M. D.,  
Professor of Physiology and Professor of Clinical Surgery.

H. C. YARROW, M. D.,  
Professor of Dermatology and Clinical Dermatology.

HENRY L. E. JOHNSON, M. D.,  
Professor of Gynecology and Professor of Clinical Gynecology.

THOMAS E. McARDLE, A. M., M. D.,  
Professor of Minor Surgery.

WILLIAM K. BUTLER, A. M., M. D.,  
Professor of Ophthalmology and Clinical Ophthalmology.

STERLING RUFFIN, M. D.,  
Professor of Medical Jurisprudence.

CHARLES W. RICHARDSON, M. D.,  
Professor of Laryngology and Otology and Professor  
of Clinical Laryngology and Otology.

EDMUND L. TOMPKINS, M. D.,  
Professor and Clinical Professor of Nervous Diseases.

A. R. SHANDS, M. D.,  
Professor of Orthopedic Surgery.

JOHN VAN RENSSELAER, M. D.,  
Professor of Surgical Pathology and Professor of Clinical  
Surgery.

WALTER REED, M. D.,  
Professor of Bacteriology and Pathology.

W. F. R. PHILLIPS, M. D.,  
Professor of Hygiene.

GEORGE N. ACKER, M. D.,  
Professor and Clinical Professor of Pædiatrics and Professor of  
Clinical Medicine.

G. WYTHE COOK, M. D.,  
Professor of Clinical Medicine.

J. W. BOVÉE, M. D.,  
Professor of Clinical Gynecology.

RANDOLPH B. CARMICHAEL, M. D.,  
Professor of Clinical Dermatology.

T. RITCHIE STONE, M. D.,  
Clinical Professor of Genito-Urinary Diseases.

GEORGE W. FOSTER, M. D.,  
Professor of Mental Diseases.

W. S. WASHBURN, M. D.,  
Professor of Normal Histology.

T. A. CLAYTOR, M. D.,  
Professor of Clinical Medicine.

---

DEMONSTRATORS.

STERLING RUFFIN, M. D.,  
Demonstrator of Anatomy.

E. G. SEIBERT, M. D.,  
Senior Demonstrator of Chemistry.

A. L. LAWRENCE, M. D.,  
Junior Demonstrator of Chemistry.

B. F. TIEFENTHALER,  
Assistant.

FRANCIS P. MORGAN, M. D.,  
Assistant to the Chair of Materia Medica and Therapeutics, in  
charge of the Pharmacy Laboratory.

L. W. GLAZEBROOK, M. D.,  
Curator of the Museum and Demonstrator of Pathological  
Anatomy.

JOHN B. NICHOLS, M. D.,  
Demonstrator of Normal Histology.

W. F. R. PHILLIPS, M. D.,  
VIRGIL B. JACKSON, M. D.,  
GEORGE B. HEINECKE, M. D.,  
A. B. HOOE, M. D.,  
J. E. JONES, M. D.,  
R. WASHINGTON, M. D.,  
A. L. LAWRENCE, M. D.,  
E. E. RICHARDSON, M. D.,  
Assistant Demonstrators of Anatomy.

## THE COLUMBIAN UNIVERSITY.

GEORGE B. HEINECKE, M. D.,  
LINCOLN JOHNSON, M. D.,  
Prosectors to the Chair of Anatomy.

JOHN R. WELLINGTON, M. D.,  
FRANK LEECH, M. D.,  
Demonstrators of Minor Surgery.

EDWARD E. MORSE, M. D.,  
Demonstrator of Obstetrics.

JAMES CARROLL, M. D.,  
Senior Demonstrator of Pathology and Bacteriology.

FRANCIS R. HAGNER, M. D.,  
Junior Demonstrator of Pathology and Bacteriology.

JAMES CARROLL, M. D.,  
Associate in Clinical Laboratory Instruction.

B. L. HARDIN, M. D.,  
Assistant to the Chair of Practice.

O. A. McKIMMIE, M. D.,  
Examiner of Applicants for Matriculation.

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## THE UNIVERSITY HOSPITAL.

—

## MEDICAL BOARD.

J. FORD THOMPSON, M. D.  
WILLIAM W. JOHNSTON, M. D.  
ALBERT F. A. KING, A. M., M. D.  
D. WEBSTER PRENTISS, A. M., M. D.  
D. KERFOOT SHUTE, A. B., M. D.  
E. A. DE SCHWEINITZ, Ph. D., M. D.  
WILLIAM P. CARR, M. D.



EXECUTIVE COMMITTEE OF THE HOSPITAL AND DISPENSARY.

W. W. JOHNSTON, M. D., Chairman.  
 A. F. A. KING, M. D. J. FORD THOMPSON, M. D.  
 G. W. WHYTE COOK, M. D., Sec'y. C. W. RICHARDSON, M. D.  
 Mrs. W. H. HOKKE. Mrs. JOHN VAN RENSSELAER.

HOSPITAL AND DISPENSARY STAFF.

*Surgery.*

J. FORD THOMPSON, M. D.  
 Associates: W. P. Carr, M. D., John Van Rensselaer, M. D.,  
 and John Wellington, M. D. (in Dispensary). Assistant:  
 F. R. Hagner, M. D.

*Medicine.*

WILLIAM W. JOHNSTON, M. D.  
 D. W. Prentiss, M. D. (in charge of nervous diseases) Asso-  
 ciates: G. N. Acker, M. D., G. Wythe Cook, M. D., and  
 T. A. Claytor, M. D. (in Dispensary). Assistants: B. L.  
 Hardin, M. D., and Thomas Dowling, M. D.

*Obstetrics and Gynecology.*

A. F. A. KING, M. D.  
 Associates in Gynecology: H. L. E. Johnson, M. D., and J.  
 Wesley Bovée, M. D. Assistants: H. S. Medford, M. D.,  
 V. B. Jackson, M. D., and J. E. Jones, M. D.  
 Associate in Obstetrics: E. E. Morse, M. D.

*Diseases of the Eye.*

D. K. SHUTE, M. D.  
 Associate: W. K. Butler, M. D. Assistant: E. H. Newell, M. D.

*Diseases of the Throat and Ear.*

C. W. RICHARDSON, M. D.  
 Assistant: F. P. Morgan, M. D.

*Diseases of the Skin.*

H. C. YARROW, M. D.  
 Associate: R. B. Carmichael.

## THE COLUMBIAN UNIVERSITY.

*Diseases of Children.*

T. E. MCARDLE, M. D.  
Assistant: Frank Leech, M. D.

*Orthopedic Surgery.*

A. R. SHANDS, M. D.

*Diseases of the Nervous System.*

E. L. TOMPKINS, M. D., and STERLING RUFFIN, M. D.  
Assistant: A. L. Lawrence, M. D.

*Genito-Urinary Diseases.*

T. R. STONE, M. D.  
Assistant: W. T. Burch, M. D.

*Clinical Laboratory.*

E. A. DE SCHWEINITZ, M. D.  
Associate: James E. Carroll, M. D.

*Pathologist.*

WALTER REED, M. D., U. S. A.  
Assistant: L. W. Glazebrook, M. D.

*Superintendent.*

Miss A. G. ODELL.

*Resident Physician.*

C. S. WHITE, M. D.

The seventy-eighth course of lectures begins on Monday, October 2, 1899.

The Introductory Lecture of the Course will be delivered by Professor D. W. Prentiss, on the 2d of October, and the regular lectures will continue throughout the session, beginning at 5.30 p. m. of each week day. The laboratories are open day and evening.

## DEPARTMENTS OF INSTRUCTION.

The system of instruction adopted by the Medical School of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otol-ogy, Laryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Pæ-diatrics, Minor Surgery, Histology, Pathological Histology, Or-thopedic Surgery, and Surgical Pathology.

Laboratory instruction is given in Chemistry, Histology and Pathological Histology, Bacteriology, Pharmacy, and Clinical Medicine.

## SURGERY.

## PROFESSOR THOMPSON,

Surgeon to the University Hospital, the Children's Hospital, and to the Gar-field General Hospital.

The course embraces Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical In-struction at the School.

As Professor Thompson is the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institu-tions.

Every effort is made to teach Surgery in accordance with the latest developments of scientific research. At the School oper-ations are performed upon the cadaver, and the uses of all im-portant surgical instruments and appliances are demonstrated in the same manner.

MINOR SURGERY.—Practical class instruction is given by Pro-fessor McArdle and his assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

## THEORY AND PRACTICE OF MEDICINE.

## PROFESSOR JOHNSTON,

Physician to the University Hospital and Consulting Physician to the Chil-dren's Hospital and to the Central Dispensary and Emergency Hospital.

The student is urged to pay special attention to the course in Histology during the second year, as this is essential to a proper

understanding of the internal diseases of the human body. The courses in pathology and bacteriology should also receive the closest study, for without a clear knowledge of these subjects no satisfactory advance can be made.

The method of instruction employed in this subject is as follows:

1. Lectures at the School, with occasional recitations.
2. Clinical lectures at the University Hospital, with practical instruction in the art of diagnosis and in the methods of taking and recording histories of medical cases.
3. Demonstration of the use of instruments of research for the clinical study of the sputum, blood, feces, etc.

## OBSTETRICS AND THE DISEASES OF WOMEN AND CHILDREN

PROFESSOR KING,

Obstetrician to the University Hospital and one of the Consulting Physicians  
to the Children's Hospital.

This course comprises a series of lectures on the Science and Practice of Midwifery, together with additional lectures on Gynecology. The main purpose of the lecturer is to explain, impress, and simplify the matters to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. With this view the lectures are illustrated by diagrams, models, natural preparations, manikins, and instruments.

The Demonstrator of Obstetrics, Dr. Edward E. Morse, gives cases of labor to advanced students, and demonstrates obstetric operations, and allows students to perform these operations upon the manikin, under his direction. This course is limited to fourth-year students, and all are advised to take it before becoming candidates for graduation.

In the Department of Gynecology the various instruments and appliances used in treating the diseases of women are exhibited and their uses fully explained.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR PRENTISS,

Physician to the University Hospital and one of the Consulting Physicians  
to the Children's Hospital and to the Central Dispensary  
and Emergency Hospital.

In the course of instruction pertaining to this chair especial prominence is given to the physiological action of medicines and their therapeutic uses.

The value of a knowledge of Pharmacy and of the Natural History and Chemical Relations of the *Materia Medica* is not overlooked, but time does not admit of their being considered in detail in the lecture-room. Practical instruction in these subjects is given in the Pharmacy Laboratory.

The art of prescribing has a place in the consideration of individual drugs, particularly with reference to appropriate combinations, much of the success of the practitioner depending upon the practical application of his knowledge in the sick room.

The professor endeavors to make his instruction as practical as possible. The lectures are supplemented by working prescriptions and blackboard illustrations, as occasion admits. In the instruction given by this chair the metric system is used exclusively.

## ANATOMY.

PROFESSOR SHUTE,

Ophthalmic Surgeon to the University Hospital and to the Washington  
Hospital for Foundlings.

This course of lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body may be acquired during the two courses of lectures, which each student attends, to qualify him for the practice of medicine, if at the same time he does his duty in the dissecting-room.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciop-

ticon is also employed constantly to present photographic views of many regions of the body.

Special attention is given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the medical profession.

Public oral examinations are conducted by the lecturer from time to time.

The prosectors prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

**PRACTICAL ANATOMY.**—The dissecting-room of the School is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied. The room is open during the day and night until 11 p. m., and on some occasions even later. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who is present at stated hours to give personal attention to the students and properly to instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

## CHEMISTRY AND TOXICOLOGY.

PROFESSOR DE SCHWEINITZ,

In Charge of Clinical Laboratory, University Hospital, and Director of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces,—

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions, are studied.

Due attention is given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction is given in the general methods of qualitative and quantitative analysis, volumetric analysis, toxicology, urine analysis, water analysis, and special clinical analyses.

Opportunity for advanced work in biochemistry is afforded.

## PHYSIOLOGY.

PROFESSOR CARR,

Associate Surgeon to the University Hospital and Surgeon to the Central Dispensary and Emergency Hospital.

This subject is fully presented by a two years' course of lectures, and the lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Especial emphasis is given to those truths that have a practical value.

Physiological anatomy receives special attention, and is illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anæsthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy is also taught by Professor Washburn in the laboratory, and an opportunity is given students to do practical physiological work as far as their time will permit.

## DERMATOLOGY.

PROFESSOR YARROW,

Dermatologist to the University Hospital and one of the Consulting Physicians to the Garfield Hospital and Woman's Clinic.

Professor Yarrow gives lectures on this subject, illustrated by diagrams, models, photographic illustrations of disease from life, and also the exhibition of cases. In connection with the course clinical instruction is given at the Central Dispensary and Emergency Hospital and the University Hospital by Dr. Carmichael, where an abundance of material affords excellent clinical advantages.

## PÆDIATRICS.

PROFESSOR ACKER,

Associate Physician to the University Hospital and Physician to the Children's Hospital.

Professor Acker lectures upon diseases of infants and children and the importance of their proper management by diet and hygiene.

## GYNECOLOGY.

PROFESSOR JOHNSON,

In Charge of the Department of Gynecology, Central Dispensary and Emergency Hospital, Associate Gynecologist, University Hospital.

The Professor amplifies his lectures on the diseases peculiar to women by clinical instruction in physical diagnosis at the Emergency Hospital each Sunday afternoon, from October to May. Operative work will be demonstrated as frequently as possible. The Professor has organized in connection with his service an outdoor maternity clinic, which is open to students.

## MINOR SURGERY.

PROFESSOR MCARDLE,

Pædiatrician, University Hospital, and one of the Assistant Physicians to the Children's Hospital.

The course in Minor Surgery consists of lectures and practical demonstrations. Under the supervision of assistants the students themselves apply the various splints, bandages, surgical dressings, etc.

## OPHTHALMOLOGY.

PROFESSOR BUTLER,

Ophthalmologist at Garfield Hospital, in Charge of the Lutheran Eye and Ear Infirmary, and Associate Ophthalmologist, University Hospital.

The Professor gives a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

## MEDICAL JURISPRUDENCE.

• PROFESSOR RUFFIN,

Associate in Nervous Diseases, University Hospital, and one of the Visiting Physicians to the Home for Incurables.

This course deals with the relations of Physicians to matters under legal investigation. It covers as fully and practically as possible the more important subjects of forensic medicine.



Students are taught to give expert testimony and how to conduct themselves as medical witnesses.

## LARYNGOLOGY AND OTOTOLOGY.

PROFESSOR RICHARDSON,

Laryngologist to the University, the Providence, and the Episcopal Eye, Throat, and Ear Hospitals.

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

## NERVOUS DISEASES.

PROFESSOR TOMPKINS,

In charge of the Department of Nervous Diseases at the Central Dispensary and Emergency Hospital; Associate in Nervous Diseases, University Hospital.

Lectures are given upon the more common and important of these affections.

## SURGICAL PATHOLOGY,

PROFESSOR VAN RENSSELAER,

Associate Surgeon, University Hospital, and one of the Surgeons to the Garfield Hospital.

The Professor gives a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

## ORTHOPEDIC SURGERY.

PROFESSOR SHANDS,

Orthopedist, University Hospital.

This course embraces didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction of treatment of the same according to the most modern orthopedic methods.

Special attention is given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures. There are afforded also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction is given in the application and use of plaster of Paris in treatment of Pott's Disease, Scoliosis, Club Feet, etc.

## HYGIENE.

PROFESSOR PHILLIPS,

In charge of the Section of Climatology, U. S. Weather Bureau.

The course in Hygiene is directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation of health and the prevention of disease; it comprises also the consideration of the laws of hygiene as applied to the individual and to the community.

## PATHOLOGY AND BACTERIOLOGY.

PROFESSOR REED,

Pathologist of the University Hospital, Curator of the Army Medical Museum,  
and Professor of Clinical and Sanitary Microscopy in the  
Army Medical School.

In this department the effort is made to give the student a practical knowledge, first, of the preparation of culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. After some familiarity with the biological characters of the pyogenic cocci has been acquired, the study of inflammation is next begun, so that the student may appreciate as fully as possible the several lesions which these microorganisms bring about in various tissues. Thereafter the courses in bacteriology and pathology are carried along, side by side, as much as possible, the specific lesions produced by a pathogenic bacterium being carefully studied in connection with its biological characters. During this course, which lasts from October to May, in addition to the process of inflammation, the diseases of the heart and blood-vessels, the lungs, the liver, kidney, spleen, and intestines are studied in succession,

as far as possible. For this purpose, sections illustrating the various diseases are carefully selected and given to the student, to be stained, mounted, and studied by himself under the immediate supervision of the instructor. These sections become thereafter the property of the student. The course terminates with the microscopical study of the several varieties of tumors.

## HISTOLOGY.

PROFESSOR WASHBURN.

The study of Histology is compulsory for students in the second year of their course. Special attention is given to the manipulation of the microscope, and to that part of the technique necessary for an intelligent study of tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of the body. The Histological Laboratory, open both day and evening, is equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations are held at the close of the session.

## MENTAL DISEASES.

PROFESSOR FOSTER,

One of the Assistant Physicians to the Government Hospital for the Insane,  
St. Elizabeth.

A series of lectures is given upon the subject of insanity in its varied forms. Clinical instruction is also given at the hospital.

## PHARMACY.

DR. MORGAN.

Instruction in this course is directed especially to the following divisions of the subject: 1. The official preparations of the U. S. Pharmacopœia. 2. Incompatibles. 3. Prescription writing. 4. Antidotes to poisons.

Each of these subjects is taught by laboratory work and practical exercises.

## LABORATORY INSTRUCTION.

The laboratories are furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology, Clinical Medicine, and Pharmacy, as above described.

The Pathological Museum is equipped with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the Deputy Coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the collection.

## CLINICAL INSTRUCTION.

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, is required, and upon other clinics as indicated by the special clinical card. When the student presents himself for examination a certificate to this effect must be furnished.

## ADMISSION.

Candidates for matriculation are required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra or Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be matriculated.

Dr. O. A. M. McKimmie, 1333 N Street, N.W., will give further information in regard to instruction in Latin, Physics, etc.

## ADVANCED STANDING.

Students of other institutions who have attended one course of lectures in any regular medical school are placed upon the same footing with those who have attended one course in this School, and those who have attended two (or three) courses of lectures in any other regular college or colleges rank with those who have attended two (or three) courses in this institution, and the same privileges as regards examination are extended to them; they are admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

## GRADUATION.

Candidates for the degree of Doctor of Medicine must be of good moral character and at least twenty-one years of age; they must have studied medicine four years, and must have attended four courses of lectures, the subjects arranged as follows:

*First Year.*

Unless otherwise stated, numbers indicated below mean lecture hours per week.

Anatomy.—Two hours before, three hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; three hours' laboratory work.

Materia Medica and Therapeutics.—Three hours before, two hours after Christmas; one hour laboratory work.

Practical Anatomy.—Dissection-room open during the day and until 11 o'clock at night.

Examination at the end of the year upon the above-named subjects.

*Second Year.*

Anatomy.—Two hours before, three hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; four hours' laboratory work.

**Materia Medica and Therapeutics.**—Three hours before, two hours after Christmas.

**Histology.**—Laboratory.

**Practical Anatomy.**—Dissection-room open all day and until 11 o'clock at night.

**Examination** at the end of this year upon the above-named subjects.

### *Third Year.*

**Surgery.**—Three hours before, two hours after Christmas.

**Medicine.**—Two hours before, three hours after Christmas.

**Obstetrics.**—Three hours before, two after Christmas.

**Minor Surgery.**—One hour, from October 5 to December 14, bandaging, etc., in the manikin-room.

**Dermatology.**—One hour, from January 4 to March 16.

**Ophthalmology.**—One hour, from October 3 to December 5.

**Bacteriology and Pathology.**—Eight hours' laboratory work per week.

**Surgical Pathology.**—One hour, from October 7 to December 9.

**Clinics.**

**Examination** on the above-named subjects at the end of the year.

### *Fourth Year.*

**Surgery.**—Three hours before, two hours after Christmas.

**Medicine.**—Two hours before, three hours after Christmas.

**Clinics and laboratory instruction.**

**Obstetrics.** Three hours before, two hours after Christmas.

**Gynecology.**—One hour, from January 4 to March 8.

**Mental Diseases.**—One hour, from January 2 to March 13.

**Medical Jurisprudence.**—One hour, from October 5 to December 14.

**Nervous Diseases.**—One hour, from January 6 to March 10.

**Pædiatrics.**—One hour, from October 2 to December 4.

**Otology and Laryngology.**—One hour, from October 30 to December 18, and from January 2 to March 19.

**Orthopedic Surgery.**—One hour, from January 8 to March 10.

**Hygiene.**—One hour, from January 3 to March 7.

**Clinics.**

**Final examination** at the close of the fourth year upon the above-named subjects.

The candidate must have dissected for at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended also two courses of clinical instruction in Medicine and Surgery.

One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination is both written and oral. The examination for the degree is held at the end of the session in May.

Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

Students who fail to pass the examinations in the spring are allowed a reëxamination in the following fall.

The diploma is granted only at the Annual Commencement and the degrees are conferred by the authority of The Columbian University, incorporated by act of the Congress of the United States of America.

## THE UNIVERSITY HOSPITAL.

Clinical teaching is conducted in this hospital in conjunction with the didactic lectures in the various branches. The convenient location and the fact that the hospital is under the immediate control of the Medical Faculty offer unusual advantages to the students of this school.

**GARFIELD HOSPITAL.**—Clinical Lectures are given regularly during the session by Professors Thompson and Van Rensselaer on Surgery, and by Professors Cook and Claytor on Medicine, Carmichael on Dermatology, and Butler on Ophthalmology. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

**CHILDREN'S HOSPITAL.**—A weekly course of Medical and Surgical Clinics is given by Professors W. W. Johnston, Thompson, and Acker. An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.**—Dr. H. L. E. Johnson, in charge of the department of diseases of women; Dr. Shands, on general medicine; Dr. Tompkins, in charge of nervous diseases; Dr. Carmichael, in dermatology, and Dr. Stone, in genito-urinary diseases, conduct courses of instruction in their respective branches.

**PROVIDENCE HOSPITAL.**—Clinical Instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Dr. J. W. Bovée.

**LUTHERAN EYE AND EAR INFIRMARY.**—The diseases of the eye and ear in this hospital are demonstrated during the clinics of Professor Butler.

**EPISCOPAL HOSPITAL.**—Dr. Richardson shows cases of diseases of the nose, throat, and ear in the dispensary service of this hospital.

**COLUMBIA HOSPITAL.**—Clinics and gynecological operations by Dr. Bovée.

### CLINICS GIVEN IN 1898-'99.

#### *At the University Hospital.*

Clinics were given by the different professors of the school in connection with their lectures during the term at convenient hours.

#### *At the University Hospital Dispensary.*

**Surgical Diseases.**—Tuesday, Thursday, and Saturday, 1 to 2 P. M.

**Medical Diseases.**—Tuesday, Thursday, and Saturday, 2 to 3 P. M.

**Gynecology.**—Wednesday and Friday, 1 to 2 P. M.

**Diseases of the Eye.**—Monday and Thursday, 2 to 3 P. M.

**Diseases of the Ear and Throat.**—Monday and Thursday, 1 to 2 P. M.

**Diseases of the Skin.**—Monday, 2 to 3 P. M.

**Diseases of Children and Orthopedic Surgery.**—Wednesday and Saturday, 2 to 3 P. M.

**Nervous Diseases.**—Tuesday and Friday, 2 to 3 P. M.

**Genito-Urinary Diseases.**—Saturday, 1 to 2 P. M.



*At the Garfield Hospital.*

**Surgery.**—Dr. Thompson, November to April. Dr. Van Rensselaer, October 1 to November 1.

**Medicine.**—Dr. Claytor, Tuesdays and Thursdays, 4 to 5, October 1 to November 15. Dr. Cook, Tuesdays and Thursdays, 4 to 5, January 1 to April 1.

**Medical Dispensary Service.**—Dr. Hardin, Mondays, Wednesdays, and Fridays at 2 p. m.

**Surgical Dispensary Service.**—Dr. Wellington, Tuesdays, Thursdays, and Saturdays at 2 p. m.

*At the Children's Hospital.*

**Medicine.**—Dr. Johnston, Saturdays, 4 to 5, October 1 to January 1.

**Children's Diseases.**—Dr. Acker, January 1 to April 1, Saturdays at 4 p. m.

**Surgery.**—Dr. Thompson, Tuesdays, 2 p. m., October to April. Dr. McArdle, Saturdays at 2 p. m.

**Medical Dispensary Service.**—Dr. Leech, Tuesdays, Thursdays, and Saturdays at 2 p. m.

**Surgical Dispensary Service.**—Dr. Wellington, Mondays, Wednesdays, and Fridays at 2 p. m.

*At the Central Dispensary and Emergency Hospital.*

**Gynecology.**—Dr. H. L. E. Johnson, October to April (fourth year).

**Orthopedic Surgery.**—Dr. Shands, Fridays at 1 p. m.

**Nervous Diseases.**—Dr. Tompkins, Mondays 12 noon (fourth year).

**Surgery.**—Dr. W. P. Carr, daily at 2 p. m., and Thursdays at 5.30 p. m., October 1 to January 15.

**Genito-Urinary.**—Dr. T. R. Stone, Tuesdays 9 to 10 a. m. (fourth year).

**Dermatology.**—Dr. Carmichael, Mondays and Thursdays, 12 noon (third year).

*At the Lutheran Dispensary.*

**Ophthalmology.**—Dr. Butler, Tuesdays at 1 p. m. (third year).

*Episcopal Eye, Ear, and Throat Hospital.*

**Otology and Laryngology.**—Dr. Richardson, Saturdays at 1 p. m., November and December (fourth year).

*At Providence Hospital and at Columbia Hospital by Special Invitation.*

Gynecology.—Dr. Bovée, Mondays and Thursdays (fourth year).

#### OBSTETRICAL DEMONSTRATIONS.

Obstetrical Demonstrations.—Dr. E. E. Morse, secured cases for fourth-year students.

### SCHEDULE OF CLINICAL INSTRUCTION, 1899-1900.

Clinics at the UNIVERSITY HOSPITAL will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, Surgical Clinics, by Professor Thompson, at Garfield Hospital and at the Children's Hospital, during the entire course, and by Dr. Van Rensselaer at the Garfield, and by Dr. Carr at the Emergency Hospital.

Medical Clinics, by Professor Johnston, at Children's Hospital; by Professor G. Wythe Cook, at the Garfield Hospital, and by Professor Claytor, at the Garfield Hospital.

Clinics on the special branches will be given by Professor Acker, at the Children's Hospital, from January to April; by Professor H. L. E. Johnson, at the Emergency Hospital, on Gynecology; by Professor Richardson, on Laryngology and Otology, at the Lutheran Eye and Ear Infirmary; by Professor Butler, on the Diseases of the Eye, at the Lutheran Eye and Ear Infirmary and Garfield Hospital; by Professor Tompkins, on the Diseases of the Nervous System; Dr. Shands, in Medicine; Dr. J. W. Bovée, at Providence (on Gynecology); by Dr. Carmichael, in Dermatology, and Dr. T. R. Stone, in Genito-urinary Diseases, at the Emergency Hospital.

*Cards giving exact days and hours of all clinical instruction are issued at the beginning of each term.*

When the student presents himself for graduation he must furnish a certificate from Drs. Thompson, Van Rensselaer, and Carr that he has attended two full courses of instruction in clinical surgery, and from Drs. Johnston, Acker, Cook, and Claytor that he has attended two full courses of clinical medicine.

LECTURES.—FIRST YEAR, 1899-1900.

BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5-30		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
6-30		MATERIA MEDICA AND THERAPEUTICS Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7-30	PHYSIOLOGY. Upper Room.				PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8-30	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PHARMACY.

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5-30		CHEMISTRY. Lower Room.				CHEMISTRY. Lower Room.
6-30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7-30	ANATOMY. Upper Room.		PHYSIOLOGY. Lower Room.		PHYSIOLOGY. Lower Room.	
8-30	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.		PRACTICAL ANAT- OMY.	PHARMACY.	PRACTICAL ANAT- OMY.

*At Providence Hospital and at Columbia Hospital by Special Invitation.*

Gynecology.—Dr. Bovée, Mondays and Thursdays (fourth year).

OBSTETRICAL DEMONSTRATIONS.

Obstetrical Demonstrations.—Dr. E. E. Morse, secured cases for fourth-year students.

SCHEDULE OF CLINICAL INSTRUCTION,  
1899-1900.

Clinics at the UNIVERSITY HOSPITAL will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, Surgical Clinics, by Professor Thompson, at Garfield Hospital and at the Children's Hospital, during the entire course, and by Dr. Van Rensselaer at the Garfield, and by Dr. Carr at the Emergency Hospital.

Medical Clinics, by Professor Johnston, at Children's Hospital; by Professor G. Wythe Cook, at the Garfield Hospital, and by Professor Claytor, at the Garfield Hospital.

Clinics on the special branches will be given by Professor Acker, at the Children's Hospital, from January to April; by Professor H. L. E. Johnson, at the Emergency Hospital, on Gynecology; by Professor Richardson, on Laryngology and Otology, at the Lutheran Eye and Ear Infirmary; by Professor Butler, on the Diseases of the Eye, at the Lutheran Eye and Ear Infirmary and Garfield Hospital; by Professor Tompkins, on the Diseases of the Nervous System; Dr. Shands, in Medicine; Dr. J. W. Bovée, at Providence (on Gynecology); by Dr. Carmichael, in Dermatology, and Dr. T. R. Stone, in Genito-urinary Diseases, at the Emergency Hospital.

*Cards giving exact days and hours of all clinical instruction are issued at the beginning of each term.*

When the student presents himself for graduation he must furnish a certificate from Drs. Thompson, Van Rensselaer, and Carr that he has attended two full courses of instruction in clinical surgery, and from Drs. Johnston, Acker, Cook, and Claytor that he has attended two full courses of clinical medicine.

## LECTURES.—FIRST YEAR, 1899-1900.

## BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.				PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PHARMACY.

## AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.				CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	ANATOMY. Upper Room.		PHYSIOLOGY. Lower Room.		PHYSIOLOGY. Lower Room.	
8.30	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.		PRACTICAL ANAT- OMY.	PHARMACY.	PRACTICAL ANAT- OMY.

**LECTURES.—SECOND YEAR, 1899-1900.  
BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.			CHEMISTRY. Laboratory.	PHYSIOLOGY Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.		PHARMACY.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.		HISTOLOGY. Laboratory.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	HISTOLOGY. Laboratory.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	ANATOMY. Upper Room.		PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	
8.30	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.		PHARMACY.	CHEMISTRY. Laboratory.

LECTURES.—THIRD YEAR, 1899-1900.  
BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.
6.30	OBSTETRICS. Upper Room.	(Oct. 3 to Dec. 5.) OPHTHALMOLOGY. Upper Room.	OBSTETRICS. Lower Room.		OBSTETRICS. Upper Room.	(Oct. 7 to Dec. 9.) SURGICAL PATHOL- OGY. Upper Room.
7.30	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.	
8.30	BACTERIOLOGY. Laboratory.		BACTERIOLOGY. Laboratory.	(Oct. 5 to Dec. 14.) MINOR SURGERY AND BANDAGING. Special Room.	BACTERIOLOGY. Laboratory.	

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.	4.30, CLINICS.	4.30, CLINICS.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.
6.30	OBSTETRICS. Upper Room.				OBSTETRICS. Lower Room.	
7.30	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.
8.30	PATHOLOGY. Laboratory.		PATHOLOGY. Laboratory.	(Jan. 4 to March 16.) DERMATOLOGY. Lower Room.	PATHOLOGY. Laboratory.	

**LECTURES.—FOURTH YEAR, 1899-1900.  
BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.
6.30	OBSTETRICS. Upper Room.		OBSTETRICS. Lower Room.	(Oct. 5 to Dec. 14.) MEDICAL JURIS- PRUDENCE. Upper Room.	OBSTETRICS. Upper Room.	CLINICAL LABORA- TORY INSTRUCTION.
7.30	(Oct. 9 to Dec. 12.) PEDIATRICS. Lower Room.	PRACTICE. Lower Room.		PRACTICE. Lower Room.		
8.30	(Oct. 30 to Dec. 18.) OTOLOGY AND LARYNGOLOGY. Lower Room.					

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.	4.30, CLINICS.	4.30, CLINICS.		SURGERY. Upper Room.	4.30, CLINICS.
6.30	OBSTETRICS. Upper Room.	(Jan. 2 to Mar. 13.) MENTAL DISEASES. Upper Room.	(Jan. 3 to Mar. 7.) HYGIENE. Lower Room.	(Jan. 4 to Mar. 8.) GYNECOLOGY. Upper Room.	OBSTETRICS. Lower Room.	(Jan. 6 to Mar. 10.) NERVOUS DISEASES. Upper Room.
7.30	(Jan. 8 to Mar. 27.) OTOLOGY AND LARYNGOLOGY. Lower Room.	PRACTICE. Lower Room.	CLINICAL LABORA- TORY.	PRACTICE. Lower Room.		PRACTICE. Lower Room.
8.30						(Jan. 6 to Mar. 10.) ORTHOPEDIC SUR- GERY. Upper Room.



## UNIVERSITY LECTURES.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they may secure admission to other lectures, given in the Hall of the University, by applying to the Dean.

## PRIZES.

At the end of the term a General Examination Prize of fifty dollars is awarded. It is given to the candidate for graduation who shall pass the best general examination.

The Faculty awards two additional prizes—one for proficiency in Clinical Medicine and one for proficiency in Clinical Surgery.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology; Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology; Professor Sterling Ruffin gives one for the best examination in Medical Jurisprudence; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology; Professor E. L. Tompkins gives one for the best examination in Nervous Diseases, and Professor Acker gives one for the best examination in Pædiatrics.

At the commencement, in June, 1898, the General Examination Prize was awarded to W. N. Fisher, of Virginia; first honorable mention was made of George K. Baier, of the District of Columbia; second honorable mention of T. A. Groover, of Georgia, and third honorable mention of Wright Rives, of Maryland.

The Faculty Prize in Clinical Medicine was awarded to Thos. Dowling, Jr., of the District of Columbia.

The H. C. Yarrow Prize in Dermatology was awarded to B. F. Tiefenthaler, of Ohio; the H. L. E. Johnson Prize in Clinical Gynecology, to P. L. Gunckel, Kansas; the Sterling Ruffin Prize in Medical Jurisprudence was awarded to E. A. A. Cook, of the District of Columbia.

The C. W. Richardson Prize in Laryngology and Otology was awarded to G. H. Schwinn, of Maryland.

The E. L. Tompkins Prize in Nervous Diseases was awarded to F. H. Morhart, of Ohio.

The Walter Reed Prize in Bacteriology was awarded to P. W. Huntington, of the District of Columbia.

## EXPENSES.

For the session of 1899-1900 and thereafter the fee for each year will be \$110. This covers all expenses, dissection and laboratories included, except breakage or loss of valuable apparatus in the laboratories. Each graduate pays a \$5 fee for diploma. Of this amount at least \$25 must be paid upon entrance and before beginning dissection.

A deposit is required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For special courses the following fees will be charged :

Matriculation fee, payable only once.....	\$5 00
Single tickets.....	25 00
Practical Anatomy, by the Demonstrator.....	10 00
Laboratory tickets, each, per year .....	10 00

Payment of the fees is required in all cases, and must be made at the commencement of the session, unless there are special arrangements with the Dean to suit the convenience of the student.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

## SCHOLARSHIPS.

By virtue of a liberal endowment from the late Mr. W. W. Corcoran, this School is enabled to offer six free Scholarships.

Two of these Scholarships are open for competitive examination to the graduates of the several High Schools of the District of Columbia. These two Scholarships are awarded to the two students whose averages are highest.

Two of the Scholarships are open for competitive examination to graduates of any reputable High School or College (preference being given to those in the District of Columbia) who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two graduates whose averages are highest.

The remaining two Scholarships are open for competitive examination to students who, though not graduates of any

High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two students whose averages are highest.

In addition to the above-mentioned six Corcoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which shall be given to those applicants judged by the President of the University best qualified to enter the study of medicine for the purpose of becoming medical missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

The School Building is situated opposite a Government reservation, at No. 1325 H Street, N. W., THE UNIVERSITY HOSPITAL at 1335 H Street, N. W., within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

DR. E. A. DE SCHWEINITZ, *Dean*,  
1325 H Street, N. W.

## STUDENTS IN MEDICINE.

### *First Year Students.*

Name.	State.	Address.
An derson, U. G.....	N. J.....	935 Pa. Avenue.
Boag, John.....	Ga.....	623 4th Street.
Conyngton, Wm.....	Texas....	Navy Yard.
Crook, Harrison E.....	D. C.....	Geological Survey.
Cunningham, C. G.....	N. Y.....	918 Mass. Ave.
Embrey, E. R. S... ..	Va.....	611 E Street, S. E.
Emery, O. V.....	Pa. ....	Treasury Depatme't.
Fitch, Arthur C.....	N. Y.....	1008 F Street.
Fitch, Fredrick A.....	Ky.....	1325 Vermont Ave.
Foust, Earl H.....	Mich....	810 9th Street, N. E.
Fry, Samuel.....	La.....	Post Office Dept.
Grant, J. L.....	Va.....	
Green, R. J.....	D. C.....	St. Elizabeth Hosp.

Name.	State.	Address.
Gilbert, A. L.....	Va.....	1308 B Street, S. E.
Gilchrist, Edgar Y.....	Md.....	652 Mass. Ave., N. E.
GlascocK, Alfred.....	Va.....	1709 21st Street.
Halstead, Griffin.....	Ohio.....	1029 Conn. Avenue.
Hathaway, W. A.....	Pa.....	1112 13th Street.
Hudson, Edward C.....	Texas....	316 C Street.
Houghton, M. W.....	D. C. ....	1830 14th Street.
Jewett, Henry M.....	N. H.....	509 1st Street, N. E.
Jones, E. B.....	Ind.....	Agricultural Dept.
Laird, J. Packard.....	Va... ..	Keene, Va.
Lynch, J. Mortimer.....	Texas....	1423 Q Street.
Lawton, E. M.....	D. C.....	1143 24th Street.
Lindville, Thomas.....	N. C.....	921 I Street.
Little, Richard M.....	Ohio.....	519 East Capitol St.
McClanahan, A. L.....	Va.....	2927 M Street.
McDaniel, J. M.....	S. C.....	The Genoa.
McGeary, T. J.....	Pa.....	712 11th Street.
McGraw, J. E.....	D. C.....	830 D Street, S. E
McKee, J. M.....	N. Y... ..	2123 K Street
Norcross, Alfred C....	Pa. ....	620 I Street.
Parsells, Chas. W.....	N. Y.....	723 18th Street.
Price, M. H.....	Va.....	1255 H Street, N. E.
Pipes, H. F.....	W. Va... ..	1542 7th Street.
Perry, Edward L.....	Mass.....	
Poole, F. H. ....	Texas....	807 9th Street.
Pulliam, J. M.....	Va.....	St. Elizabeth Hosp.
Prevatt, J. T.....	Ga.....	1304 L Street.
Ransdell, R. C.....	Ind.. ...	1422 N Street.
Rogers, J. D. . .	D. C.....	721 8th Street.
Reddy, Owen W.....	Mass. ...	202 Del. Ave., N. E.
Robey, W. I.....	Va.....	222 East Capitol St.
Smith, Jos. W.....	Md.....	Frederick, Md.
Smith, L. Conway.....	Va.....	Alexandria, Va.
Stetson, Thos.....	D. C.....	1324 12th Street.
Tinker, B. L.....	Pa.....	810 9th Street, N. E.
Tyree, W. R., Jr.....	D. C....	1347 Md. Ave., N. E.
Williams, J. H....	Ga.....	1520 Corcoran Street.
Wood, W. C.....	Kan.....	1420 5th Street.
Worthley, M. L.....	Pa.....	2218 6th Street.

*Second Year Students.*

Name.	State.	Address.
Adamson, J. H.....	Va.....	Alexandria, Va.
Atherton, B. F.....	Ga.....	1615 Marion Street.
Barnes, Geo. S.....	S. C.....	1517 I Street.
Beard, W. H.....	D. C.....	1315 N Street.
Bennett, A. B., Jr.....	D. C.....	Station A.
Bone, B. F.....	D. C.....	Wash'n Barracks.
Brown, T. J. W.....	Tenn.....	1112 13th Street, N.E.
Brearden, R.....	Wis.....	Weather Bureau.
Carswell, F. L.....	Ga.....	1002 N Street.
Collins, H. F.....	D. C.....	125 10th Street, N. E.
Costello, M. E.....	Md.....	Hyattsville, Md.
Covert, J. R.....	D. C.....	Takoma Park.
Clayton, G. L.....	La.....	436½ H Street.
Cummings, A. J.....	Md.....	Chevy Chase.
Davis, W. T.....	Ky.....	1005 8th Street.
Eastman, W. R.....	Va.....	Falls Church.
Freeman, P. L.....	Md.....	516 11th Street, S. E.
Foster, C. L.....	Miss.....	1226 12th Street.
Georges, F.....	Greece....	Greece
Grasty, T. S. D.....	Va.....	625 Q Street.
Harlan, T.....	D. C.....	
Hoadley, A. M.....	N. Y.....	241 Pa. Avenue.
Hayes, M. W.....	N. C.....	2133 F Street.
Knowlton, J. W.....	Mass.....	1213 I Street.
Kittredge, H. E.....	Vt.....	1027 8th Street.
Kirkendall, H. J.....	Pa.....	2618 K Street.
Lewis, G. E.....	Mass.....	1327 Whitney Ave.
Leech, W. V.....	Md.....	712 7th Street, N. E.
Love, S. W. E.....	Md.....	221 9th Street, N. E.
Leatherman, R. E.....	D. C.....	1413 Q Street.
Mason, E. L.....	Va.....	Children's Hospital.
Mattingly, G. D.....	Md.....	708 N. C. Ave., S. E.
March, Harry A.....	Ohio.....	906 I Street.
Marshall, J. W.....	Idaho....	1316 L Street.
Magruder, E. P.....	Md.....	1220 H Street.
Moore, E. B.....	D. C.....	The Savoy.
Morris, S. J.....	Ohio.....	1615 1st Street, N. E.
Morton, Baxter... ..	La.....	Patent Office.

Name.	State.	Address.
Murray, A.....	Va.....	Alexandria, Va.
Mitchell, J. E.....	Md.....	407 Pa. Avenue.
McMichael, S. J.....	S. C.....	2110 K Street.
Nelson, A. T.....	Va.....	1506 6th Street.
Perlie, H. E.....	Mass.....	924 14th Street.
Pyles, W. L.....	D. C.....	224 11th Street, S. E.
Perkins, W. R.....	Md.....	627 Pa. Avenue.
Pierce, W. F.....	D. C.....	
Pollard, W. T.....	Va.....	Alexandria, Va.
Quinn, W. A.....	D. C.....	436½ H Street.
Reed, D. H.....		901 French Street.
Riley, B. P.....	Md.....	Oakdale, Md.
Ruffin, Geo. M.....	N. C.....	1023 Vermont Ave.
Russell, R. L.....	D. C.....	10 7th Street, N. E.
Rucker, H. C.....	Va.....	214 E Street,
Ryder, L. W.....	Conn.....	Marine Hospital.
Tobias, H. W.....	Pa.....	Treasury Departm't.
Turner, K. B.....	Kan.....	932 K Street.
West, R. T.....	Md.....	Ashton, Md.
Williams, J. M.....	Va.....	Alexandria, Va.
Wimberly, G. W.....	Ga.....	1422 30th Street.
Zynaga, A. C.....	D. C.....	Brooklyn, D. C.

*Third Year Students.*

Name.	State.	Address.
Atkinson, J. F.....	Ind.....	
Barron, N. I.....	Ala.....	902 G Street.
Beale, R.....	D. C.....	3062 I Street.
Beall, C. M.....	D. C.....	1469 Kenesaw Ave.
Brown, O. G.....	D. C.....	1357 Roanoke Street.
Brown, H. L.....	D. C.....	230 North Capitol St.
Bradshaw, G. M. B.....	Pa.....	War Department.
Birtwell, D. T.....	Pa.....	1309 H Street.
Cuthbertson, C. W.....	N. C.....	622 E Street.
Clark, C. P.....	Miss.....	626 I Street.
Clark, W. S.....	N. Y.....	819 13th Street.
Copeland, E. P.....	D. C.....	507 C Street, S. E.
Dixon, T. B.....	D. C.....	445 O Street.
Dailey, W. F.....	Miss.....	1312 Q Street.

Name.	State.	Address.
Ford, R. H.....	D. C.....	Geological Survey.
Griffith, W. E.....	Pa. ....	420 11th Street, N. E.
Greene, H. S.....	Vermont.	1320 Q Street.
Greenstreet, A. G.....	Mo .....	7 Grant Place.
Gardner, D. M.....	Mass....	808 11th Street.
Heath, F. C.....	Md .....	1010 H Street.
Hales, R. A.....	N. C.....	1325 12th St., N. E.
Johnson, F. T.....	Mich ....	1400 Staughton St.
Kleiner, R.....	Md .....	725 12th Street.
Kemp, T. J.....	Neb ....	Treasury Departm't.
Manning, H. M.....	D. C.....	637 Maryland Ave.
Main, R. B.....	D. C ....	2009 Mass. Avenue.
Mason, S. M.....	Va.....	1827 H Street.
Macatee, H. C .....	Va.... ..	3 Thomas Circle.
Murdock, L. H.....	Neb.....	1948 2d Street.
Moulden, W. R.....	D. C.....	1305 R. I. Avenue.
Price, H. M.....	D. C.....	426 7th Street, S.W.
Prentiss, E. C.....	D. C.....	1218 9th Street.
Ragan, C. A.....	Tenn.....	224 14th Street.
Reis, Henry, Jr. ....	Ohio....	Garfield Hospital.
Riggles, J. L.....	D. C.....	445 O Street.
Robinson, G. M.....	Pa. ....	1313 H Street.
Schlaar, W. F.....	N. Y.....	800 O Street.
Smith, C. T.....	Va.....	30 Grant Place.
Simmons, M. J.....	Md.....	1411 Corcoran St.
Stewart, J. W.....	N. C.....	1309 H Street.
Westlake, A. J .....	N. C.....	304 I. Street.
Webb, U. R. ....	Tenn ....	1115 R. I. Ave.

*Fourth Year Students.*

Name.	State.	Address.
Allen, J. H.....	Tenn ....	1418 L Street.
Andrews, W. T.....	Mich ....	1924 3d Street.
Baker, Osmyn.....	N. J.....	609 E Street.
Blye, B. F.....	N. Y.....	1321 Wallach Place.
Blackburn, S. A.....	Ky.....	472 Louisiana Ave.
Butz, A. D.....	Pa.....	Eastern Dispensary.
Butler, A. R.....	Oregon...	Civil Service Com'n.
Coleman, C. O.....	Va.....	

Name.	State.	Address.
Cox, P. M.....	Md.....	519 L Street.
Fadeley, F. F.....	Va.....	223 N Street.
Gallinger, W. H.....	N. H.....	The Elsmere.
Grubbs, R. B. ....	Va. ....	1460 Corcoran St.
Gibson, F. E.....	D. C.....	927 I Street.
Gunion, J.....	D. C.....	927 O Street.
Gotwald, L. M.....	Pa.....	1230 11th Street.
Gotta, R. C.....	Pa.....	818 N. J. Ave.
Graham, H. H.....	Ohio. ...	305 H Street.
Hester, F. D.....	Va.....	The Portland.
Hodes, H. K.....	N. Y.....	725 13th Street.
Key, Sothoron.....	Md.....	1807 G Street.
Leith, A. T.....	Wis.....	1461 Florida Ave.
May, H. A.....	N. Y....	1826 9th Street.
Mason, O. J.....	N. Y.....	1320 I Street.
Mathews, W. W.....	La.....	
Medley, W. W.....	Va.....	1007 13th Street.
Musgrave, W. E.....	Tenn ....	Wash'n Barracks.
McKeldin, R. A. W.....	Ind.....	1242 Md. Ave., N. E.
McIntee, M. J.....	Mass.....	1330 New York Ave.
McKee, W. P.....	D. C.....	809 22d Street.
Perry, C. R.....	Va.....	2022 G Street.
Perkins, Joseph.....	Ill.....	725 13th Street.
Prentiss, D. W.....	D. C.....	1218 9th Street.
Porter, H. F.....	N. Y.....	3035 O Street.
Reichelderfer, L. H. ....	Ohio....	1309 17th Street.
Rittenour, A. A.....	Va.....	Alexandria, Va.
Riley, P. C. ....	Md. ....	Children's Hospital.
Selhausen, H. A.....	D. C.....	510 D Street, S. E.
Stearns, J. W.....	D. C.....	1756 Madison Street.
Snoddy, T. B. ....	Tenn.....	1217 K Street.
Sheridan, C. J.....	N. Y.....	"The Kenmore."
Sims, W. E.....	S. C.....	519 L Street.
Smith, H. W.....	Pa.....	Navy Department.
Smith, W. T.....	Ga.....	1404 L Street.
Stromberger, H. H.....	D. C.....	642 C Street, N. E.
Tappan, J. C.....	D. C.....	507 B Street, S. E.
Taylor, A. A.....	Ohio.....	915 I Street.
Tiefenthaler, B. F.....	Ohio.....	516 10th Street



Name.	State.	Address.
Ward, W. K.....	D. C.....	1756 Pa. Avenue.
Williams, W. C.....	D. C.....	United States Jail.
Worstell, G.....	Texas....	436 H Street.
Wyeth, L. J.....	Ill.....	2022 R Street.

*Special Students.*

Name.	State.	Address.
Atwood, B. F., M. D.....		Wash'n Barracks.
Briggs, L. V.....	Mass.....	
Benton, Dr.....	N. Y.....	Navy Yard.
Brown, L. S., Jr.....		1509 13th Street.
Dorsett, M., M. D.....	Pa.....	Agriculture Dept.
Esterly, B. H.....		1115 E. Capitol St.
Newburn, J. M., M. D.....	D. C.....	1112 13th Street.
McDoneld, P. E., M. D.....	Ga.....	1418 L Street.

Total..... 213

## TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY.—*Gray's*,\* *Morris'*, or *Quains' Anatomy*; *Holden's Manual of Dissection*; *Haynes' Manual of Anatomy*; *Wiedersheim's Structure of Man*.

PHYSIOLOGY.—*Flint's*, *Kirke's*, *Foster's* or *Yeo's Physiology*.

CHEMISTRY.—*Richter's*, *Remsen's*, *Simon's*, *Fowne's Chemistry*; *Bowman's Medical Chemistry*; *Witthaus' Chemistry*; *Purdy's Ureanalysis*; *Remsen's Organic Chemistry*.

MATERIA MEDICA.—*H. C. Wood's Therapeutics*; *National Dispensatory*; *Ede's Therapeutics*.

SURGERY.—*Ashurst's*, *Gross' System of Surgery*; *Erichsen's* or *Druitt's Surgery*; *Principles of Surgery*, *Senn*.

PRACTICE OF MEDICINE.—*Osler*; *Wood and Fitz*; *Tyson*; *Anders*; *American System of Practical Medicine (Loomis-Thompson)*; *Da Costa's Diagnosis*; *Musser's Diagnosis*; *Clinical Diagnosis*, *Simon*; *Klemperer*; *Clinical Examination of the Blood*, *Cabot*; *Applied Therapeutics*, *Wilson*.

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\* The works first named and in *italics* are preferred.

**OBSTETRICS.**—*Playfair*, Lusk, or Parvin's Obstetrics; American Text-book of Obstetrics (Saunders); Obstetric Surgery, by Grandin and Jarman; A. F. A. King's Manual of Obstetrics.

**GYNECOLOGY.**—*Garrigue on Diseases of Women*; Thomas and Mundé's Work; H. T. Byford's Manual of Gynecology.

**DISEASES OF CHILDREN.**—*Holt on Diseases of Infants and Children*; J. Lewis Smith; Meigs and Pepper; Rotch's Work.

**HISTOLOGY.**—Piersol's Normal Histology; Schäfer or Clarkson's.

**PATHOLOGY AND BACTERIOLOGY.**—Abbott's Principles of Bacteriology; Ziegler's Pathological Anatomy.

**HYGIENE.**—Parks' Practical Hygiene; Stephenson and Murphy's Treatise on Hygiene and Public Health; Egbert's Hygiene.

**DERMATOLOGY.**—Hyde's Diseases of the Skin; Jackson's Diseases of the Skin; Duhring's Diseases of the Skin.

**OPHTHALMOLOGY.**—Nettleship, De Schweinitz, or Fick.

**MINOR SURGERY.**—Wharton.

**NERVOUS DISEASES.**—Gray, Mills, Dana, Hammond, Rounney.

**MENTAL DISEASES.**—Beaven Lewis.

**ORTHOPEDIC SURGERY.**—Bradford and Lovett's or Young's Orthopedic Surgery.

**LARYNGOLOGY AND OTOTOLOGY.**—Bacon, Buck; Dench on the Ear; Seiler and F. S. Bishop on Throat Diseases.

**MEDICAL JURISPRUDENCE.**—*Reese*; Taylor's Manual; Witthaus and Becker.

**DICTIONARIES.**—Dunglison's, Duane's, Foster's, or Gould's.

# THE DENTAL SCHOOL.

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## THE FACULTY.

BENAIAH L. WHITMAN, D. D.,  
President.

J. HALL LEWIS, D. D. S.,  
Dean, and Professor of Dental Prosthetics.

HENRY C. THOMPSON, D. D. S.,  
Professor of Operative Dentistry.

D. WEBSTER PRENTISS, M. D.,  
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, M. D.,  
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,  
Professor of Chemistry.

WILLIAM P. CARR, M. D.,  
Professor of Physiology.

JONATHAN R. HAGAN, D. D. S.,  
Professor of Oral Surgery.

STERLING RUFFIN, M. D.,  
Demonstrator of Anatomy.

WILLIAM S. WASHBURN, M. D.,  
Professor of Normal Histology.

WALTER REED, M. D.,  
Professor of Pathology and Bacteriology.

WILLIAM H. TRAIL, D. D. S.,  
R. E. L. HACKNEY, D. D. S.,  
CHARLES R. RICE, D. D. S.,  
H. W. JOHNSON, D. D. S.,  
Demonstrators, in Charge of Infirmary.

## OPERATIVE DENTISTRY, DENTAL ANATOMY, AND PATHOLOGY.

PROFESSOR THOMPSON.

This course embraces lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by gentlemen whose reputations are fully established as proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

## CHEMISTRY.

PROFESSOR DE SCHWEINITZ.

The instruction in this department embraces—

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry is studied with special attention to those organic compounds that are of practical use.

Laboratory instruction is given in the determination of acids and bases, analyses of alloys, etc.

## PHYSIOLOGY.

PROFESSOR CARR.

The subject is fully covered by a two years' course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Emphasis is given to those truths that have a known practical value.

**MATERIA MEDICA AND THERAPEUTICS.****PROFESSOR PRENTISS.**

In this course of instruction especial prominence is given to the physiological action of medicines and their therapeutic uses.

The professor endeavors to make his instruction as practical as possible. The Lectures are supplemented by working prescriptions and blackboard illustrations, as occasion will admit. The student is taught also the use of the Metric System in Medicine.

In the Pharmaceutical Laboratory the students are taught the methods of making different preparations, such as infusions, decoctions, tinctures, syrups, and the like. They are also taught the compounding of prescriptions, the proper excipients for pills, incompatibles (especially such as produce dangerous compounds), and are expected actually to compound working formulæ.

**ANATOMY.****PROFESSOR SHUTE.**

This course of lectures is arranged with the view to render the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon also is constantly employed to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

*Practical Anatomy.*

The dissecting-room is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied

free of charge. The room is open during the day and at night until 11 P. M., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

## ORAL SURGERY.

PROFESSOR HAGAN.

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

## HISTOLOGY.

PROFESSOR WASHBURNE.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

## BACTERIOLOGY.

PROFESSOR REED.

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practised by the students, after which the most important pyogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

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### ADMISSION.

Candidates for admission must show, either by examination or by the exhibit of a diploma or a certificate from some reputable institution of learning, that they have received a good English education, according to the requirements of the National Association of Dental Faculties.

### ADVANCED STANDING.

The following is considered as equivalent to one course in this School:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Graduates from schools of pharmacy and veterinary medicine may enter the Junior Class after passing a satisfactory examination in the first-year studies.

### GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of seven months' duration, and three

free of charge. The room is open during the day and at night until 11 P. M., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

### ORAL SURGERY.

PROFESSOR HAGAN.

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

### HISTOLOGY.

PROFESSOR WASHBURNE.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

### BACTERIOLOGY.

PROFESSOR REED.

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.



After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practised by the students, after which the most important pyogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

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### ADMISSION.

Candidates for admission must show, either by examination or by the exhibit of a diploma or a certificate from some reputable institution of learning, that they have received a good English education, according to the requirements of the National Association of Dental Faculties.

### ADVANCED STANDING.

The following is considered as equivalent to one course in this School:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Graduates from schools of pharmacy and veterinary medicine may enter the Junior Class after passing a satisfactory examination in the first-year studies.

### GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of seven months' duration, and three

courses of Clinical Instruction in this Institution, during the regular winter term and in separate years, with the exceptions noted below.

Before becoming eligible for graduation, all medical graduates and students must take two full courses upon Operative and Prosthetic Dentistry, and conform to the usual Infirmary requirements.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be reëxamined in the fall.

Students may go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before or ten days after the opening lecture of the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the School Museum a well-constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, and habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the School sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second dental course, provided that, one month before the spring examinations, they give to the Dean written notice of their intention, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States.

### FACULTY PRIZE.

A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record. At the last commencement the prize was awarded to C. D. Keefer, of the District of Columbia.

### UNIVERSITY LECTURES.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to other lectures given in the Hall of the University by applying to the Dean.

### EXPENSES.

First Year.. .. .	\$100 00
Second Year .. . . .	100 00
Third Year.....	110 00

The above includes all the tuition expenses. There are no extras whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutic, and Chemical Laboratories and Dental Infirmary are all furnished to the students free of charge.

Each student must furnish his own books and dental instruments.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he may avail himself of Laboratory and Infirmary instruction.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities.

The Dean may be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 P. M., and also at the Dental School Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week, from October 1 to May 1, between the hours of 6.30 and 8 o'clock P. M.

For further information regarding the Dental School, application may be made to

J. HALL LEWIS, *Dean,*  
1023 Vermont Avenue, Washington, D. C.

## STUDENTS OF DENTISTRY.

### *Freshmen.*

Name.	State.	Address.
Butz, Ernest M.....	Pa.....	944 New York Ave.
Brown, Samuel T.....	Ill.....	728 17th Street.
Birch, J. Vintern.....	D. C.....	1601 31st Street.
Cox, Geo. W., Jr.....	D. C.....	2821 14th Street.
Cruikshank, John C.....	Pa.....	261 K Street.
De Farges, J. R.....	Va.....	1731 13th Street.
Galetzo, Wm. F.....	Md.....	19 Grant Street.
Groser, Siegfried O.....	Mich.....	1329 C Street.
Hazelbarth, A. L.....	Pa.....	439 Warner Street.
Humeston, C. A.....	Conn.....	1216 G Street.
Hasselbach, Charles M.....	N. J.....	813 G Street, N. E.
Lamkin, L. G.....	Miss.....	1104 12th Street.
Murdoch, J. C.....	Ill.....	1942 2d Street.
Miller, Paul H.....	D. C.....	905 C Street, N. E.
Prevatt, James T.....	Ga.....	1304 L Street.
Rose, William *.....	Md.....	1533 15th Street.
Richardson, R. G.....	Md.....	Hyattsville, Md.
Reiss, Walter A.....		703 9th Street, N. E.
Smith, Howard F.....	Mass.....	921 11th Street.
Warler, John H.....	Conn.....	323 1st Street, N. E.
White, G. Harris.....	D. C.....	1105 E Street, S. W.
Yount, M.....	D. C.....	609 G Street.

*Juniors.*

Name.	State.	Address.
Bridger, J. D.....	Miss.....	The Fredonia.
Barr, W. C.....	Ill.....	Congress'l Library.
Bacon, A. P.....	Iowa.....	The Varnum.
Crabbe, W. G.....	Utah ... ..	9 4th Street, N. .
Colvin, E. M.....	Va....	2530 L Street.
Fred, Thos. W.* .....	Va. ....	721 8th Street.
Green, E. G. ....	Maine.....	209 13th Street, S. W.
Gardner, B. A.....	N. Y. ....	7 4th Street, N. E.
Grubbs, R. B.....	Ala.....	*1460 Corcoran Street.
Hughes, Charles A.....	Tenn .....	403 M Street.
McClenahan, J. T.....	N. C.....	503 L Street.
McIntee, A. J.....	Mass.....	1750 Q Street.
Otterback, M.....	D. C.....	503 C Street, S. E.
Perlie, H. E.....	Mass.....	924 14th Street.
Putnam, C. A.....	Maine.....	3608 13th Street.
Van Voorhis, H. M.....	Pa.....	308 7th Street, N. E.
Van Zant, C. A.....	Ohio.....	928 New York Ave.
Welch, Frank.....	Del.....	723 18th Street.
Wolven, Frank H.....	N. J.. ....	1309 H Street.

*Seniors.*

Name.	State.	Address.
Aler, Samuel E.....	W. Va.....	611 N Street.
Bennett, Arthur.....	Ga.....	4 Lafayette Square.
Brengle, Paris E.....	Md.....	450 P Street.
Cuevas, Enrique.....	Chili.....	
Cuthbertson, Charles W.....	N. C.....	622 E Street.
Fisher, William C.....	D. C.....	3250 O Street.
Gates, Thomas J.....	Md.....	1003 G Street, S. E.
Hoofnagle, W. B.....	Md... ..	1003 East Capitol St.
King, E. M. ....	W. Va.....	103 2d Street, N. E.
Kemball, W. M.....	Wis.....	213 Elm Street.
McChesney, J. R.....	Md.....	Chillum, Md.
Pool, Stephen D.....	La.....	1110 6th Street.
Pairo, W. E.....	Va....	1953 3d Street.
Rice, Thomas M.....	Pa.....	418 A Street, S. E.

\* Not in constant attendance.

Name.	State.	Address.
Rawson, William A.....	Mich .....	1237 10th Street.
Smith, Ernest.....	D. C.....	225 F Street, N. E.
Terry, Harry S.....	Mich .....	1336 Mass. Avenue.
Vest, W. E.....	N. C.....	1948 Q Street.
Whittaker, Horace W.....	Ohio.....	928 New York Ave.
Watts, Walter .....	Md.....	301 M Street.
Wallace, J. K.....	Ohio.....	613 Penn. Ave., S. E.
Woodford, William G.....	D. C.....	1319 11th Street.
Yates, James R.....	Va.....	1300 Penn. Avenue.
Young, Howard.....	Nova Scotia.	906 S Street.
Total.....		65

# **THE GRADUATE VETERINARY SCHOOL.**

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## **THE FACULTY.**

**BENAIAH L. WHITMAN, D. D.,**  
President.

**D. E. SALMON, D. V. M., A. R. C. V. S. (Honorary),**  
Dean, and Professor of Sanitary Medicine, Control and Eradication of Contagious Diseases, and Inspection of Meats.

**JOHN LOCKWOOD, D. V. S.,**  
Professor of Theory and Practice of Medicine and Surgery.

**WM. P. CARR, M. D.,**  
Professor of General Physiology.

**E. A. DE SCHWEINITZ, A. M., PH. D., M. D.,**  
Professor of Chemistry.

**V. A. NORGAARD, D. V. S.,**  
Professor of General Pathology.

**CHARLES F. DAWSON, M. D., D. V. S.,**  
Professor of Advanced Physiology.

**A. M. FARRINGTON, B. Sc., B. V. S.,**  
Professor of Obstetrics and Zoötechnics.

**D. E. BUCKINGHAM, V. M. D.,**  
Professor of Advanced Materia Medica and Therapeutics.

**CH. WARDELL STILES, A. M., PH. D., M. S. (Honorary),**  
Professor of Zoölogy and Bibliography.

**JAMES CARROLL, M. D.,**  
Professor of Pathology and Bacteriology.

CECIL FRENCH, D. V. S.,  
Professor of Canine Pathology.

ALBERT HASSALL, M. R. C. V. S.,  
Professor of Parasitology.

W. S. WASHBURN, M. D.,  
Professor of Histology.

GEORGE JOBSON, D. V. S.,  
Professor of Anatomy.

DAVID McMASTER, V. S., M. D.,  
Professor of Exterior of the Horse.

CHARLES F. HADFIELD, D. V. S.,  
Demonstrator of Anatomy

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The Sixth Annual Announcement of the National Veterinary College noted in the organization and direction of its work a most important change; it became the Graduate Veterinary School of The Columbian University. Under the new organization students have all the advantages and facilities for studying histology, pathology, and chemistry which are found in the laboratories of the Medical School of this University. The Faculty has been greatly strengthened by uniting several courses of instruction with similar courses in the Medical School and by securing the services of eminent veterinarians for other important chairs.

The founders of this School believing that there should be an institution in Washington for the study of veterinary science, with broad foundations and more complete facilities for advanced work, have established this School for graduate study. To be admitted to the regular courses in this School applicants must hold a degree from some other veterinary college of recognized standing.

Students not possessing a degree in veterinary medicine will be accepted only as special students, and then only in case they can show that they have had preliminary training which will



enable them to follow the work of the class without detriment to other students. Such special students will be given a certificate of attendance or of examination in special branches, but will not be graduated by this University until they have first obtained a degree at some other Veterinary College of recognized standing.

The faculty is made up of well-known veterinarians and experienced lecturers, who are recognized as authorities on the subjects which they teach. The courses have been arranged to suit the requirements of modern veterinary education. The lectures on the control and eradication of contagious diseases and on meat inspection are a special feature, designed to fit the students for the many responsible and lucrative positions which have been opened to competent men by recent State and National legislation. Chief among such positions under the Federal Government are those of Inspectors and Assistant Inspectors in the Bureau of Animal Industry. These positions are now filled only by persons who are veterinary graduates, and who pass the examination of the Civil Service Commission.

The vast amount of capital invested in our animals in the various States, and the widespread existence of tuberculosis and other diseases in them, and the relation which these bear to the health and wealth of the country, make it more and more necessary that there be a class of persons thoroughly educated for the duty of coping with these conditions. The advanced veterinary graduate is the logical candidate for such positions, and we now have many State veterinarians, as well as veterinarians to the State boards of health, while in nearly all the agricultural colleges and in most of the municipal governments veterinarians occupy important positions.

## COURSES OF INSTRUCTION AND STUDY.

**THESIS WORK.** During the first month of the term each candidate for an advanced degree will be required to choose a major branch for examination at the end of the year. He will also submit for the approval of the Faculty a subject in this branch for a thesis. He will be expected to study the entire available literature on the subject selected, supplementing his bibliographic work by original observations and investigations. From

the data thus gained he must prepare and submit a thesis to the Faculty before entering any examination for a degree.

It is expected that fully one-third of the entire time of every graduate student will be given up to thesis work.

**LECTURES.** All courses are optional, but no student will be admitted to examination for a degree who does not elect at least ten hours of lectures per week, covering one major and two minor subjects. The following courses are open to students during the session of 1899-1900:

### **SANITARY MEDICINE, THE CONTROL AND ERADICATION OF CONTAGIOUS DISEASES, AND MEAT INSPECTION.**

**PROFESSOR SALMON.**

This subject is taught by lectures covering the whole field of infectious diseases—their history, nature, cause, diagnosis, and treatment. The results of recent investigations in this country and abroad are incorporated, and particular attention is given to available sanitary measures and the laws and regulations for their enforcement. The effect of animal diseases upon the public health and the means of protecting mankind from these plagues receive due consideration. The principles of meat inspection are developed in the final lectures of the course. Professor Salmon's experience in organizing and directing the work of the United States Government for the eradication of contagious diseases and for meat inspection enables him to present these subjects in a practical manner which must be of great advantage to those who aspire to positions in national, state, or city government. The course is looked upon as one of the most important in our curriculum, and no efforts are spared to maintain it at the highest degree of efficiency.

### **THEORY AND PRACTICE OF MEDICINE AND SURGERY.**

**PROFESSOR LOCKWOOD.**

The course in the practice of veterinary medicine and surgery consists of clinical lectures. At these the student is given every

opportunity to learn all that each case may show. The methods of examination, differential diagnosis, and treatment are thoroughly taught. The use of anæsthetics, the practice of dental surgery, lameness, and male and female castration are especially dwelt upon.

## PHYSIOLOGICAL CHEMISTRY.

PROFESSOR DE SCHWEINITZ.

Physiological and biochemistry, including the preparation of tuberculin, mallein, antitoxines, and allied products will be taught. (Open only to students who have had thorough courses in chemistry and bacteriology.)

## GENERAL PHYSIOLOGY.

PROFESSOR CARR.

The subject is presented by lectures illustrated by modern diagrams, models, and experiments. Especial emphasis is given to those truths that have a practical value. Physiological anatomy receives especial attention, and is illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anæsthetized living animals when necessary for a thorough understanding of the subject. Physiological anatomy is also taught in the laboratory, and an opportunity is given students to do practical physiological work as far as their time will permit.

## ADVANCED VETERINARY PHYSIOLOGY.

PROFESSOR DAWSON.

This course will consist of about twenty-five lectures, upon the following subjects: The blood and its circulation, respiration, digestion, absorption, secretion and excretion, nutrition, heat production, the nervous system, and the special senses.

When necessary, mechanical appliances and fresh and alcoholic specimens will be used to demonstrate the principles taught.

## GENERAL PATHOLOGY.

PROFESSOR NÖRGAARD.

In this course special attention is given to the morbid anatomy and microscopic changes involved in inflammation, degeneration, hypertrophy, atrophy, and tumors. Methods for making autopsies and recording data are also considered. The instruction is given by means of lectures, recitations, and demonstrations of both the gross and microscopic changes involved in the various disease processes.

## PATHOLOGY AND BACTERIOLOGY (PRACTICAL).

PROFESSOR CARROLL.

In addition to the study of gross changes of appearance seen in ordinary diseases, special attention is given to the minute changes occurring in tissues in inflammation and inflammatory affections of the various organs, as well as to the cellular structure of the important tumors and new growths. To this end the microscope is freely used. An attempt is also made to impress upon the student the importance of a thorough and systematic autopsy in all cases, besides which he has practical illustrations of the most approved methods for preparing bacteriological slides and cultures from the blood and other tissues of animals after death.

## ADVANCED MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR BUCKINGHAM.

An advanced course on the principles and practice of comparative therapeutics is given. The course also includes an exhibition of the drugs and a description of the agencies, not drugs, employed by the veterinarian. Practical instruction is given in all the methods used in the exhibition of medicines.

## OBSTETRICS AND ZOÖTECHNICS.

PROFESSOR FARRINGTON.

The course of instruction consists of lectures on obstetrical anatomy, foetal development, presentations, and the diseases incidental to the periods of gestation and parturition.

The lectures are illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

The professor also delivers a course of lectures on the breeds of horses, cattle, sheep, and swine, including their breeding, feeding, and management. This course also embraces precautions to be observed in importing animals, their purchase, shipment, and quarantine—subjects of great value to those engaged in the handling of pure-bred stock.

## CANINE MEDICINE AND SURGERY.

PROFESSOR FRENCH.

The purpose of this course is to make students thoroughly acquainted with diseases of the dog and the modern methods of treatment. The course consists of about twenty-four lectures, and is conducted by the Professor, whose practice is confined entirely to the treatment of the canine race.

Students have excellent opportunities for clinical observation on dogs of all breeds and ages under medical or surgical treatment at the Professor's private canine infirmary.

## PARASITOLOGY.

PROFESSOR HASSALL.

The instruction in this subject consists of lectures upon the various parasites with which the domesticated animals are infested. Thorough instruction is also given as to the prevention and eradication of parasites and the treatment of the diseases caused by them.

## HISTOLOGY.

PROFESSOR WASHBURNE.

Special attention is given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of the tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of animals. The histological laboratory is well equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject.

## COMPARATIVE ANATOMY.

PROFESSOR JOBSON.

This important subject is taught by numerous lectures. The laboratory work of the department is under the immediate direction of the Professor of Anatomy, assisted by Dr. C. F. Hadfield, demonstrator.

## ZOÖLOGY.

PROFESSOR STILES.

The course in Zoölogy is designed (1) to give the student a general knowledge of the animal kingdom as a matter of general education and culture; (2) to serve as an introduction to Anatomy, Histology, Physiology, Obstetrics, and Breeding; (3) to aid the student in his study of Sanitary Medicine and Meat Inspection.

The following course is given:

GENERAL ZOÖLOGY AND THE ANIMAL PARASITES OF MAN. One hour per week, from October to May. This course includes a general introduction to the biological sciences and a discussion of several of the more important groups of animals. The lecturer also gives a general introduction to the subject of parasitology and a discussion of the protozoa, flukes, tapeworms, roundworms, arachnoids, and insects parasitic in the human subject. Particular attention is given to the species which are transmissible to man from the domesticated animals. The lectures

are illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for this course, and by exhibition of specimens. The lectures are supplemented by practical laboratory exercise in microscopic examination of meat for trichinosis and of feces for the eggs of intestinal parasites.

Special directions are given as to methods of bibliographical research.

## EXTERIOR OF THE HORSE.

PROFESSOR McMASTER.

A weekly lecture upon this subject is given. When necessary, stereopticon views and photographs of horses are used to teach the student to recognize the predominating features presented in type specimens of the various kinds of horses, and how to use the information thus gained in giving professional advice to clients, who, as a rule, wish to be informed in advance as to the probability of a particular animal being prone to lameness, viciousness, or whether suited for a particular kind of work.

Besides these courses, students may elect any of the regular courses given in the undergraduate department of human medicine in the University, such as Anatomy, Physiology, Histology, Chemistry, Bacteriology, Medical Jurisprudence, Hygiene, Obstetrics, Surgery, Practice, Clinics, etc.

## VETERINARY SEMINARY.

Veterinary Seminary by various members of the Faculty.  
One hour.

The current veterinary journals will be reviewed and discussed and original papers will be read by members of the class.

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## TEXT-BOOKS AND WORKS OF REFERENCE.

Anatomy: Strangeway, Chauveau, McFadyean.

Physiology: Mills' Comparative, F. Smith, Flint, Yeo.

Materia Medica and Therapeutics: Finlay Dun, Wood, Bartholow.

Chemistry: Simon, Atfield, Remsen's Organic, Gamgee's Physiological Chemistry.

Surgery: Liautard.

Practice: Friedberger and Fröhner.

Obstetrics: Fleming.

Canine Practice: Müller (Glass' translation).

Veterinary Dentistry: Hinebauch, Clarke.

Lameness and Shoeing: Zundel, Fleming.

Dictionary: Dunglison, Keating, Gould.

Age of Domestic Animals: Huidekoper, Liautard.

Bacteriology: Abbott, Sternberg.

Zoölogy—Parasites: Neumann, by Fleming.

Meat Inspection: Walley, Stiles. The Inspection of Meats for Animal Parasites.

Histology: Piersol, Schaefer.

Cattle Practice: Steel, Hill.

Exterior of the Horse: Goubaux & Barrier, Percival.

Pathology: Green, Delafield & Prudden.

### EXPENSES.

The fee for the full course, including matriculation, lectures, examinations, and diplomas, is one hundred dollars (\$100) per year. Where a student desires to take only one or two courses, the fees will be as follows:

Matriculation.....	\$5 00
Examination fee (for each subject).....	5 00
Certificate fee.....	5 00
Lecture fee for each course taken..	15 00

### SESSION OF 1899-1900.

Oct. 2. Examination and admission of students.

Oct. 4. Lectures begin.

Apr. 28. Lectures close.

The didactic lectures are given daily between the hours of 4.30 and 9.30 P. M.

The clinical lectures and demonstrations are given from 9 A. M. to 12 M.



## GRADUATION.

Candidates for graduation must be of good moral character, correct in deportment, twenty-one years of age; they must have graduated at a veterinary college in good standing, attended full courses of lectures, and complied with other conditions specified above. They must have paid all fees, and have passed a satisfactory examination before the Faculty.

## LABORATORIES.

The union of this College with the Columbian University has opened to our students the well-equipped laboratories of Histology, Pathology, Bacteriology, and Chemistry in that institution. They are located in the building of the Medical School of the University, and veterinary students are given instruction in the above-named subjects in common with the medical students.

## MUSEUM COLLECTION.

In this collection are to be found models, dissections, skeletons, charts, and many pathological specimens. These will all be drawn upon for purposes of illustration.

## MEDICAL ASSOCIATION.

This Association was organized in 1892. The membership is made up of members of the Faculty, graduates, and students. The meetings of the Association take place weekly, and all students are required to attend, as it is considered a very important part of the instruction given in this School. Several members of the Faculty are habitual attendants, and by their presence encourage good work and at the same time correct any error into which the essayist or critics may fall.

## GENERAL INFORMATION.

The cost of living in Washington will, as elsewhere, vary with individual taste and requirements. Generally speaking, it is about the same as in other large cities. Rooms and board may

be obtained in the immediate vicinity at from \$15 to \$25 per month. The School and Hospital buildings are located in proximity to five different street-car lines, which run to all parts of the city and suburbs.

For further information address—

DR. CHARLES F. DAWSON,  
*Secretary of the Veterinary School,  
The Columbian University, Washington, D. C.*

# THE SUMMER SCHOOL.

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## THE FACULTY.

M. MONTROSE RAMSEY, A. M.,  
Director and Professor of Modern Languages.

ANDREW F. CRAVEN, PH. D.,  
Professor of Economics.

F. LAMSON-SCRIBNER, B. S.,  
Professor of Botany.

FRANK A. WOLFF, PH. D.,  
Professor of Physics.

HERBERT LOUIS RICE, M. S.,  
Professor of Astronomy.

WILBUR F. DALES, PH. D.,  
Assistant Professor of Ancient Languages.

W. EDWIN PRIEST,  
Assistant Professor of History.

PETER FIREMAN, PH. D.,  
Assistant Professor of Organic Chemistry.

EDWARD A. MUIR, B. S.,  
Instructor in Mechanical Drawing.

EMIL H. MEYER,  
Instructor in Fine Arts.

## THE COLUMBIAN UNIVERSITY.

E. HILTON JACKSON, A. M., LL. M.,  
Instructor in Law.

MAYVILLE W. TWITCHELL,  
Instructor in Geology and Mineralogy.

EDMUND KEMPER BROADUS, A. B.,  
Instructor in English.

FRANCIS H. STEPHENS, LL. M.,  
Instructor in Law.

WALTER C. CLEPHANE, LL. M.,  
Instructor in Law.

MARCUS WARD LYON, PH. B.,  
Instructor in Zoölogy.

REED PAIGE CLARK, A. B.,  
Instructor in German and Secretary of the Faculty.

THOMAS A. WILLIAMS, A. M.,  
Assistant in Botany.

JULES MAILLET,  
Assistant in French.

FRED FURGUSON REISSNER, B. S., E. E.,  
Assistant in Physics.

## SCHEDULE OF RECITATIONS FOR THE SESSION OF 1899.

## I.—Section of Arts and Sciences.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
4.30 to 5.30	Chemistry, 1. Finance. German, 3. History, 1. Latin, 1. Spanish, 2.	Calculus. German, 1. Greek, 1. History, 3. Politics. Spanish, 3.	Calculus. Chemistry, 1. Finance. French, 2. History, 1. Latin, 1.	Calculus. German, 1. Greek, 1. History, 3. Politics. Spanish, 3.	Chemistry, 1. Finance. French, 2. German, 3. History, 1. Latin, 1.	German, 1. Greek, 1. History, 3. Politics. Trigonometry.
5.30 to 6.30	Algebra. English, 1. French, 1. Latin, 2. Physics, 1. Zoology, 1.	Botany. English, 2. Geometry. German, 2. Greek, 2. Spanish, 1.	Algebra. English, 1. French, 1. Latin, 2. Physics, 1. Zoology, 1.	Algebra. Botany. English, 2. German, 2. Greek, 2. Spanish, 1.	Algebra. English, 1. French, 1. Latin, 2. Physics, 1. Zoology, 1.	Botany. German, 2. Greek, 2. Spanish, 1.
6.30 to 7 30	Chemistry, 2. French Conv., 1. Geometry. History, 4. Mineralogy. Polit. Economy.	English, 3. French Conv., 2. Geology, 1. History, 4. International Law Trigonometry.	Chemistry, 2. English, 4. French Conv., 1. Geometry. History, 2. Mineralogy.	English, 3. French Conv., 2. Geology, 1. History, 4. International Law Trigonometry.	Chemistry, 2. English, 4. French Conv., 1. Geology, 2. Geometry. History, 4.	Analytic Geom. International Law
7.30 to 8.30	Chemistry, 3. French, 5. History, 2. Latin, 3. Trigonometry.	Analytic Geom. Geology, 2. Italian, 1. Polit. Economy. Zoology, 2.	Analytic Geom. Chemistry, 3. French, 5. Latin, 3. Zoology, 2.	Analytic Geom. Geology, 2. Italian, 1. Political Economy. Zoology, 2.	Chemistry, 3. History, 2. Italian, 1. Latin, 3.	Calculus.

II. Section of Law.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
Course 1.....	6.20-7.20		6.20-7.20		6.20-7.20	
Course 2.....		6.20-7.20		6.20-7.20		6.20-7.20
Course 3.....		6.20-7.20		6.20-7.20		6.20-7.20
Course 4.....	6.20-7.20		6.20-7.20		6.20-7.20	
Moot Court.....	7.20-8.20		7.20-8.20		7.20-8.20	

N. B.—The foregoing schedules are subject to slight modifications at the time the classes are formed.

## DEPARTMENTS OF INSTRUCTION.

## I.—SECTION OF ARTS AND SCIENCES.

## ANCIENT LANGUAGES.

ASSISTANT PROFESSOR DALES.

*Greek.*

1. A course for those students who desire to begin Greek. White's Beginner's Greek Book. Three hours.\*

2. A rapid review of White's Beginner's Greek Book, together with translation of Anabasis, Book i, chapters i-v. This course is designed especially for those students who desire to review their first year's work. Three hours.

3. Anabasis, Homer, Herodotus. or Lysias; grammar, exercises. Courses will be given in one or more of these authors on application of a sufficient number of students. Especial emphasis laid on translation and constructions. Three hours.

*Latin.*

1. A course for those desiring an introduction to the language. Collar and Daniell's First Latin Book. Three hours.

2. A rapid review of the First Latin Book. A course designed for those desiring a thorough and rapid review of their first year's work. Three hours.

3. Cæsar; grammar, exercises. Especial emphasis laid on translation and constructions. Three hours.

4. Cicero, Vergil, Livy, Ovid, etc. Courses will be given in these authors similar to course 3, on application of a sufficient number of students. Three hours.

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\* Unless otherwise stated, hours per week throughout the session.

## BOTANY.

PROFESSOR LAMSON-SCRIBNER.

MR. WILLIAMS.

Gross anatomy or organography, general morphology, and systematic botany by lectures, recitations, and studies in the field. The field-work consists of the collection of specimens representing the more general groups of the vegetable kingdom and their preparation for the herbarium. Special studies of grasses and the plants of the District of Columbia form a feature of the course. Three hours.

## CHEMISTRY.

ASSISTANT PROFESSOR FIREMAN.

*Lecture Courses.*

1. Introduction to the study of Chemistry. Three hours.
2. A rapid review of Inorganic Chemistry. Three hours.
3. A rapid review of Organic Chemistry. Three hours.

*Laboratory Courses.*

4. A series of experiments on the fundamental principles of Chemistry. Eighteen hours.
5. Organic preparations. Eighteen hours.

Additional laboratory courses in particular branches of analytical chemistry will be arranged to meet the desires of applicants.

The fee for each laboratory course is \$20. This charge is separate from the fee for lecture courses. Students matriculating in one of the laboratory courses are entitled to attendance upon the lecture courses.

In addition to the special fee for Course 4, each student is charged \$2.50 for materials. In Course 5 the preparations are so selected that the extra expense for chemicals will not exceed \$10.



## ECONOMICS.

PROFESSOR CRAVEN.

## 1. Finance. Three hours.

The Science of Money and Credit, with especial reference to present conditions in the financial world. Lectures, notes, collateral reading from Walker, Macleod, Jevons, White, and others.

## 2. Politics. Three hours.

Fundamental principles of government by the people; organization and functions of the Township, County, City, and State. Diagrams, lectures, notes, readings, and reviews.

## 3. Political Economy. Three hours.

Short text-book studies from Adam Smith, Ricardo, Mill, Gregory, and Marshall. A complete outline of Political Economy is given.

## 4. International Law. Three hours.

Sources, purposes, and economic effects and benefits of International Law. Texts: Woolsey and Gallaudet.

The particular attention of students of law is called to courses 2 and 4.

## ENGLISH.

MR. BROADUS.

## 1. Practical rhetoric, with daily theme writing. Three hours.

Text-book: "Principles of Rhetoric" (new edition), A. S. Hill.

## 2. Essentials of Old English Grammar, with selected prose readings. Two hours.

Text-book: Bright's "Anglo-Saxon Reader."

## 3. Shakespeare's Historical Plays. Two hours.

## a. Introduction (by lectures):

I. Sources and development of the English Historical Plays;

II. Shakespeare's dramatic works, and the importance of Historical Plays in his growth ;

III. The construction of a drama ;

b. Special study of " Richard III " and " Henry VIII. "

4. English lyric poetry of the Nineteenth Century. Two hours.

The above courses have been outlined after consultation with the Head of the Department of English of the University.

## FINE ARTS.

MR. MEYER.

1. Sketching from Nature. Landscapes in oil, water color, pencil, charcoal, and wash. Monday, Wednesday, and Friday, from 2 to 6 p. m.

This course is especially adapted to the needs of art students and of teachers in public and private schools.

2. Free-hand Drawing. To be given both as a general course and as applied to civil engineering and architecture. Four hours.

Other courses in drawing and art will be arranged to suit the wishes of individuals and classes.

## GEOLOGY AND MINERALOGY.

MR. TWITCHELL.

1. A lecture course in Geology for beginners. Two hours.

This course is intended either for general culture or as an introduction to the science of Geology, preliminary to the more extensive courses in the Corcoran Scientific School. The lectures cover the most important and most interesting facts of the science. Occasional field trips are made in the vicinity of Washington.

2. A rapid review of Dynamical, Structural, and Historical Geology. Three hours.

This course consists of a series of quizzes on Scott's "Introduction to Geology," and is intended for those who have taken the corresponding course in the Corcoran Scientific School, or its equivalent.

3. A lecture course on the Useful Minerals. Two hours.

This course is intended either for general culture or as an introduction to the science of Mineralogy. The lectures treat of Gems and Precious Stones, Ores, Pigments, etc.

## HISTORY.

ASSISTANT PROFESSOR PRIEST.

1. General synopsis of American History. Three hours.

2. Early discoveries and colonization. Three hours.

3. The development of the nation from 1790 to 1850. Three hours.

4. Essentials of Ancient History. Four hours.

Courses for the periods of the American Revolution and Civil War may be formed if a sufficient number of students desire them.

## MATHEMATICS.

PROFESSOR RICE.

1. College Algebra, beginning at quadratic equations. Four hours.

2. Solid Geometry. Four hours.

3. Plane Trigonometry. Four hours.

4. Analytic Geometry. Four hours.

5. Elementary Calculus. Four hours.

Classes in descriptive and in mathematical astronomy will be formed if a sufficient number of students apply.

## MECHANICAL DRAWING.

MR. MUIR.

1. A course in Geometrical Problems to teach the beginner the accurate use of his instruments and to acquaint him with the principles and conventional methods of Mechanical Drawing.

2. A course in Patent Office Drawing.

3. A course in the Elements of Projection for beginners.

4. A course in "Working Drawings" of Machine Details.

A number of machine parts of the latest design will be found in the drawing-room. The student is expected to make complete working drawings of these parts, so that he may become familiar with their construction.

5. A course in Working Drawings of Building Details—wood joints, partitions, flooring, trusses, etc.

## MODERN LANGUAGES.

PROFESSOR RAMSEY.

MR. CLARK.

MR. MAILLET.

*French.*

1. Elementary course, for beginners. Three hours.

A course designed to give careful drill in French pronunciation, and to lay a firm grammatical foundation for subsequent study.

Text-books: Macmillan's Progressive French Course (first year) and Paul Bercy, *La Langue Française*.

2. French Syntax. Two hours.

Practical treatment of the salient peculiarities of French syntax, with exercises in French composition.

Text-books: Howard's Aids to French Composition and any good reference grammar.

3. French conversation for beginners. Three hours.

Simple descriptions of well-known things and places, alternating with questions upon the subject of previous talks, to which the students are required to reply. (No English spoken.)

4. *Causeries sur les événements quotidiens.* Two hours.

A more advanced course of conversations on current topics, based upon a perusal of the French press. (No English spoken.)

5. French literature. Two hours.

Twelve lectures, covering the literary history of France from the Roman conquest to the triumph of Romanticism.

6. The Renaissance in its relation to French literature. One hour.

*German.*

1. Elementary grammar and composition, with exercises in reading and conversation. Three hours.

Text-books: Thomas' Practical German Grammar, and Stern's Studien und Plaudereien (first series).

2. Syntax and advanced composition, with readings from novels and the classics. Two hours.

3. German literature of the classic period. Two hours.

*Spanish.*

1. Elementary course. (Similar to course 1 in French.) Three hours.

Text-books: Ramsey's Text-book of Modern Spanish and Elementary Spanish Reader.

2. Practice in conversation and newspaper reading. (No English spoken.) Two hours.

3. Spanish literary style, the principles of criticism, syntax, and rhetoric. Two hours.

4. Spanish literature. Two hours.

Twelve lectures, giving an account of the best that has been written in Spanish, from the Poema del Cid to the present day.

*Italian.*

1. Elementary course, for beginners. Three hours a week.

This course is intended to take the student through the rudiments of the grammar and enable him to read easy prose.

2. Italian phonetics. Two hours.

A course offering thorough drill in the quality and quantity of Italian voice sounds, pronunciation, and expression.

Text-book: Grandgent's Italian Grammar and Composition.

## PHYSICS.

PROFESSOR WOLFF.

MR. MEANS.

MR. REISSNER.

1. General Physics. Three hours.

The principles of Physics as illustrated by experiment. This course is intended for students without special preparation.

2. Laboratory Work.

A laboratory course for beginners in the fundamental measurements in mechanics, sound, heat, light, electricity, and magnetism. The laboratory will be open daily from 9 a. m. until 8 p. m.

Students in the Corcoran Scientific School taking this course will receive credit for the work done, or more advanced work may be substituted in the regular course.

Fee for either course, \$10; for both courses, \$15.

Arrangements will be made for additional courses in advanced physics and laboratory methods on request of a sufficient number of properly equipped students.

## ZOÖLOGY.

MR. LYON.

1. General zoölogy and animal morphology. Three hours.

A lecture course upon the larger groups of animals, their unity and development, and the general laws of biology, with laboratory demonstrations of typical forms.

2. Vertebrate anatomy. Three hours.

Laboratory demonstrations based upon the dissection of one or more small forms, such as the frog or fish.

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II.—SECTION OF LAW.

The exercises of the Summer School form no part of the curriculum of the Law School. At the same time the University desires, through the Summer School, to furnish an opportunity for instruction in Law during the summer vacation.

MR. JACKSON.

MR. CLEPHANE.

MR. STEPHENS.

*Course 1.*

Real Property. Three hours.

Text-book: Second book of Blackstone's "Commentaries" or Williams on "Real Property."

This course is designed principally as an introduction to the study of law, but will be found useful for students who desire to review this important subject.

*Course 2.*

General Treatment of the Law of Contracts. Three hours.

Business men will find this course of practical value, and law students can acquire such a knowledge of the subject as will prepare them for the regular course, or serve as a valuable review and practical adaptation of previous work.

*Course 3.*

General Treatment of Common Law Pleading. Three hours.

Text-book: Stephen or Shipman on "Pleading."

This course will be found valuable, either as a preparation for the regular law course or by way of review.

*Course 4.*

Law of Evidence. Three hours.

Text-book: Greenleaf on "Evidence."

This course, like course No. 3, will be found valuable, either as a preparation for the regular course or by way of review.

These courses have been arranged because of the desire expressed by many students of law to prosecute their legal studies during the summer months. The work, however, is not designed alone for these, as a special course has been arranged for those who are to begin the study of law; and in outlining the course the fact has been kept constantly in mind that there is an ever-increasing number of persons who desire to become acquainted with the fundamental and underlying principles of law as an indispensable part of a liberal or a business education.

The instruction is given almost exclusively by quizzing, as by this method the progress of the students is most rapid, and the best results can be accomplished, in view of the limited time of the summer session.

*Moot Court.*

Moot court is held three hours each week. The fee of \$10, charged for participation therein, is separate from the fee for lecture courses.

This feature of the law work of the Summer School has been introduced primarily to afford members of First Year and Second Year classes of the Law School an opportunity to gain some practical experience in Procedure prior to their work in the Senior Year.

The work is conducted along the lines pursued in the Senior course above referred to, the student being required to prepare pleadings, and conduct the case to a verdict, with as much particularity as would be required in actual practice.

An important feature of this class will be the limited number admitted, thus permitting each member to take charge of as many cases as his time or inclination may suggest.

The course is also open to members of the profession who have not entered upon practice, and it will be found of great assistance to those who contemplate taking the bar examination of the District of Columbia.



## EXPENSES.

The fees in the Sections of Arts and Sciences and of Law are separate and distinct, and matriculation in one does not entitle a student to the privileges of both.

In the Section of Arts and Sciences the fee for one or more courses in one department, exclusive of laboratory courses, is ten dollars.

The payment of twenty dollars admits the student to all the departments of the Section except the laboratory courses, for which extra fees are charged, according to the announcements made under such courses.

In the Section of Law the payment of ten dollars entitles the student to attend any or all of the lecture courses. The fee for the Moot Court is separate, and is also ten dollars.

All fees are payable in advance at the time of registration.

## GENERAL STATEMENT.

Instruction begins on Monday, June 19th, and continues until Saturday, July 29th.

All courses are open to students of both sexes.

Only those courses are given for which a sufficient number of applicants present themselves. (In former years this number has generally been fixed by the various instructors at from three to five.)

The classes meet between 4.30 and 8.30 o'clock p. m. This permits persons employed in Washington to avail themselves of the courses offered, and gives to those coming from a distance the entire day in which to visit the Government buildings, libraries, and museums, to study, or to do extra work in the laboratories.

The attention of teachers is called to the opportunities here offered for continuing their studies under the direction of University instructors. Every effort is made to suit the work to their requirements, and in the laboratory and field courses especially individual needs are met.

Present and prospective students of law and medicine will find a number of courses that will be of particular value, both for review and broadening of work done and for preparation for their regular professional duties.

The University buildings, laboratories, and library are open daily, Sunday excepted, from 9 a. m. until 8.30 p. m.

During the session of 1898 desirable rooms, convenient to the University buildings, were to be had at from \$5 to \$10 per month, and good board was offered at from \$15 to \$20 per month. Lists of persons offering rooms and board can be obtained upon application to the Registrar of the University.

For further information regarding the Summer School, application may be made to

M. MONTROSE RAMSEY, A. M., *Director,*  
*The Columbian University, Washington, D. C.*

### STUDENTS IN THE SUMMER SCHOOL, 1898.

Name.	State.	Address.
Able, Robert Felder.....	S. C. ....	911 M Street.
Alexander, John Phipps. ....	Tenn ....	Treasury Departm't.
Altschu, J. Henry.....	D. C.....	1334 G Street.
Altschu, Meta Rawlings.....	D. C.....	1334 G Street.
Arntzen, Julius Leopold.....	Mo ....	1722 Corcoran Street.
Baker, Sibyl .. . . . .	D. C.....	1728 Columbia Road.
Bauskett, Helen Virginia .....	S. C.....	1408 S Street.
Beatty, J. William .. . . . .	Kan.....	113 G Street.
Berry, George Magruder.....	Md ....	2017 H Street
Bridgeman, Lonnis Earle.....	Ohio.....	220 A Street, S. E.
Brown, Syria Florence.....	D. C.....	U. S. Naval Obs.
Browne, Edith Arvil.... . . . .	D. C.....	1306 Parkway.
Carter, Charles Taylor.....	D. C.....	937 Va. Ave., S. W.
Chenoweth, Mary Davenport..	D. C.....	1342 Vermont Ave.
Clements, Marjorie Webb.....	Va.....	422 7th Street, S. E.
Colestock, Harry Ludwig .....	Pa.....	937 Mass. Avenue.
Cook, Robert M.....	Kan.....	609 E Street.
Daish, John B .....	D. C.....	118 4th Street, N. E.
Davis, George Jacob, Jr.....	D. C.....	1320 11th Street.
Davis, William Hammett .....	N. Y.....	1101 K Street.
Dodge, Arthur J.....	Wis.....	623 13th Street.
Dodge, Colby Ford.....	D. C.....	1744 Corcoran Street.
Doyle, Aida Mary.....	Penn ....	1902 3d Street.
Dunlap, Robert Henry.....	D. C.....	1816 Corcoran Street.

Name.	State.	Address.
English, William L.....	Ill.....	1012 Mass. Avenue..
Evans, Maurier Preston.....	Va.....	311 S Street, N. E.
Fenning, Karl Herbert .....	D. C.....	513 4th Street.
Ford, Ella May.....	Va.....	63 N. Y. Ave., N. E.
Gould, Harry Lewis.....	D. C.....	812 13th Street.
Grady, Jennie Powell.....	D. C.....	1521 29th Street.
Hance, Eleanor Wilson.....	N. J.....	Cherrydale, Va.
Harris, Charles Gantt.....	D. C. ...	1917 Kalorama Ave.
Hewett, Foster.....	D. C.....	1634 17th Street.
Hiatt, J. Edgar..	Ind.....	259 N Street.
Jackson, Daniel Kerfoot. ....	Va.....	809 13th Street.
Johnson, Carl Alexander.....	Cal.....	216 Seaton St., N. E
Johnston, Robert.....	Wyo.....	826 14th Street.
Kelton, Adelaide.....	D. C.....	1841 R Street.
Kelton, Anna Campbell.....	D. C.....	1841 R Street.
Kelton, Margeretta... ..	D. C.....	1841 R Street.
Laudenslager, Daniel Klyne... ..	Pa.....	Hyattsville, Md.
Lewis, Annie Johnstone.....	N. C.....	1507 Vermont Ave.
Lupton, Edward J. S .....	W. Va...	Treasury Dept.
Martin, Samuel Maner.....	S. C.....	1806 S Street.
Mason, Anita Dorsey .....	Va.....	1827 H Street.
Matthews, Charles Eugene.....	Okla.....	416 3d Street.
Milliken, Humphreys.....	Tenn ....	1821 H Street.
Miner, William Harvey.....	Conn ....	814 11th Street.
Moore, Charles A.....	Colo.....	Post Office Dept.
Morrison, Clarke John. ....	Ind.....	415 R Street.
Murphy, Joseph Alexander....	D. C. ...	1103 10th Street.
Perry, Frank S .....	D. C.....	1536 16th Street.
Peters, Arthur Stevens.....	D. C ....	1354 Columbia Road.
Portner, Ernest George.....	D. C.....	1104 Vermont Ave.
Powell, Herbert H .....	Pa.....	Theolog. Sem'y, Va.
Roberts, Edwin E., M. D.....	D. C.....	621 East Capitol St.
Rohrback, Howard L.....	Pa.....	1209 Q Street.
Rohrback, Juniata.....	Pa.....	1209 Q Street.
Scrivener, John.....	D. C ....	12 3d Street, N. E.
Shackelford, Laura.....	D. C.....	924 Md. Ave., N. E.
Sherman, John, Jr.....	D. C.....	Cleveland P'k, D. C.
Smith, Willoughby Randle....	D. C.....	1311 22d Street.
Stetson, Frank Owen.....	Mass.....	1802 R Street.

Name.	State.	Address.
Sudbrink, John Thomas.....	Ind.. . . .	1535 15th Street.
Sweeny, Vina A.....	Pa.....	630 A Street, N. E.
Taggart, G. Russell.....	N. J.....	Dept. of Justice.
Tayler, Louise.....	Ohio.....	1411 Hopkins Street.
Thatcher, Frank Hosford.....	Iowa.....	1016 D Street, N. E.
Todd, George Carroll.....	Va.....	3169 P Street.
Topping, D. Le Roy.....	N. Y.....	1113 G Street.
Vaill, Edward Warren, Jr.....	Mass....	210 T Street.
Voorhees, Warder....	Ohio....	317 4½ Street.
Warren, Frances Helen.....	Wyo.....	1848 Wyoming Ave.
West, Sara.....	Germany.	205 G Street.
Wharton, John James, Jr.....	Va. ....	City Post Office.
Wilson, Clarence Rich.....	D. C.....	912 17th Street.
Wingfield, Thomas Julian.....	Va.....	1519 T Street.
Yancey, K. Lulalia.....	Va.....	908 15th Street.
Total.....	.. . . .	78

# DEGRESS CONFERRED IN 1898.

## UPON EXAMINATION.

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### *Doctor of Philosophy.*

Name.	Residence.
Whitehead, Cabell.....	Idaho.
B. M., Lehigh University, 1885.	
M. S., Columbian University, 1895.	

### *Master of Arts.*

Bridgman, Lonnes Earle.....	Ohio.
A. B., Denison University, 1896.	
Fireman, Ernestine.....	District of Columbia.
Hall, Percival....	District of Columbia.
A. B., Harvard University, 1892.	
Holcombe, John Walker... ..	District of Columbia.
A. B., Harvard University, 1875.	
Hyde, Charles Sumner ....	Wisconsin.
Ph. B., University of Michigan, 1889.	
Moore, Charles.....	Michigan.
A. B., Harvard University, 1878.	
Pace, Lillian.....	Virginia.
B. S., Columbian University, 1897.	
Pace, Roy Bennett....	Virginia.
A. B., Richmond College, 1897.	
Ross, George Albert.....	Missouri.
A. B., William Jewell College, 1893.	
Thigpen, John Howard .....	Louisiana.
A. B., Keachie College, 1892.	
A. M., Keachie College, 1895.	
Tralle, Henry Edward.....	Missouri.
A. B., William Jewell College, 1894.	
Ware, William George.....	Massachusetts.
Welbourn, John Armistead.....	Indiana.
A. B., Johns Hopkins University, 1896.	

*Master of Science.*

Name.	Residence.
Biehl, William Frederick .....	Ohio.
B. S., Columbian University, 1897.	
Miller, Stephen Cookman... ..	Minnesota.
M. D., Columbian University, 1884.	
Phar. D., Howard University, 1888.	
Portner, Edward George.....	District of Columbia.
B. S., Columbian University, 1897.	
Taylor, Louise .....	Ohio.
B. A., Wellesley College, 1896.	
Veitch, Fletcher Pearre.....	Maryland.
B. S., Maryland Agricultural College, 1891.	

*Doctor of Medicine.*

Baier, George Kasper.....	District of Columbia.
Chapman, Thomas Pinkney.....	Texas.
Clemons, Carl Anson.....	New York.
Cook, Elmon Allen Adams.....	District of Columbia.
Dowling, Thomas, Jr.....	District of Columbia.
Fisher, William Nimmo.....	Virginia.
Grier, William Watmough.....	District of Columbia.
Groover, Thomas Allen.....	Georgia.
Gunckell, Pearl Loehr.....	Kansas.
Herald, Avediss B.....	Armenia.
Howard, Charles Norman.....	Pennsylvania.
Huntington, Philip Weatherly.....	Connecticut.
Keyser, Carl Schurz.....	District of Columbia.
McDonnold, Paul Ewing .....	Georgia.
Morhart, Frederick Henry.....	Ohio.
Orr, C. Wesley.....	District of Columbia.
Rives, Wright, Jr.....	Maryland.
Schwinn, George Henry .....	Connecticut.
Sorrell, George Reuben. . . . .	Virginia.
Tracey, John Matthew .....	New York.
Welles, Delbert Arthur.....	New Hampshire.
White, Charles Stanley.....	District of Columbia.
Whitson, W. E. ....	Maryland.
Yarborough, Richard Fenner.....	Texas.

*Doctor of Dental Surgery.*

Name.	Residence.
Bogley, Edwin H.....	Maryland.
Boynton, George W.....	New York.
Bradford, Fenton .....	Virginia.
Dahlen, Philip J.....	California.
Dunne, James C.....	New York.
Gibson, Hopkins.....	West Virginia.
Gorman, Jacob Allen.....	District of Columbia.
Hicks, Fessenden Fairfax. ....	Maryland.
Johnson, Henry Wilson....	District of Columbia.
Keefer, Charles B.....	District of Columbia.
Kauschke, Johannes O. A.....	Germany.
Naff, William E.....	Tennessee.
Shade, E. Clyde.....	District of Columbia.
Utz, A. Thomas .....	Maryland.
Van Deusen, Orville.....	Virginia.

*Doctor of Veterinary Science.*

Moore, Edward Lockhart, B. S.....	Canada.
Washburn, Henry James.....	Michigan.

*Master of Laws.*

Aird, John Bryson.....	Alabama.
Bradley, Stephen Duncan... ..	District of Columbia.
LL. B., Columbian University, 1897.	
Burks, De Paul.....	California.
LL. B., Cumberland University.	
Church, Frank M.....	New Jersey.
B. S., Georgetown College, Ky., 1896.	
Clark, Lindley Daniel.....	Tennessee.
A. B., Earlham College, 1886.	
A. M., Mayville College, 1890.	
LL. B., Columbian University, 1897.	
Croxton, Fred. C.....	Illinois.
LL. B., Columbian University, 1897.	
Dalzell, George W.....	New York.
LL. B., Columbian University, 1897.	

Name.	Residence.
Dye, Leon Lamar.....	Mississippi.
LL. B., Columbian University, 1897.	
Harrison, Walton.....	District of Columbia.
LL. B., Georgetown University, 1897.	
Hawley, Cornell Smith. ....	New York.
LL. B., Georgetown University, 1897.	
Hesselman, George Jacob.....	Illinois.
LL. B., Columbian University, 1897.	
Johnson, Charles A.....	District of Columbia.
LL. B., Columbian University, 1897.	
Kellogg, Charles Jirah.....	Louisiana.
LL. B., 1894; LL. M., 1897, National University Law School.	
Leonard, Henry.....	District of Columbia.
LL. B., Columbian University, 1897.	
Mackey, George Dallas, Jr.....	New Jersey.
LL. B., Columbian University, 1897.	
Mehn, William.....	Louisiana.
LL. B., Columbian University, 1897.	
Phelps, Charles Eugene . ....	Illinois.
LL. B., Columbian University, 1897.	
Prentiss, Spencer B.....	District of Columbia.
LL. B., Columbian University, 1897.	
Riddleberger, Ralph H.....	Virginia.
LL. B., Columbian University, 1897.	
Snodgrass, John James.....	District of Columbia.
LL. B., Columbian University, 1897.	
Specht, Augustus Franklin .....	Pennsylvania.
LL. B., Columbian University, 1897.	
Sullivan, Willis Eugene.....	Idaho.
LL. B., Columbian University, 1897.	
Tarbox, Fred. L.....	New York.
LL. B., Columbian University, 1897.	
Tilton, Clark K ..	District of Columbia.
LL. B., Columbian University, 1896.	
Vorhees, Philip Barton.....	Illinois.
LL. B., Vanderbilt University, 1897.	
Wells, Cyrus Campbell ...	Illinois.
LL. B., Columbian University, 1897.	



Name.	Residence.
Wells, Robert Wesley.....	Kansas.
LL. B., University of Kansas, 1897.	
Welsh, Joseph Wickes .....	Maryland.
LL. B., Columbian University, 1897.	

*Master of Patent Law.*

Brock, George S.....	District of Columbia.
Clapp, Harry Lincoln.....	Massachusetts.
S. B., Massachusetts Institute Technology, 1893.	
LL. B., Columbian University, 1896.	
LL. M., Columbian University, 1897.	
Clay, Francis W. H.....	Kentucky.
C. E., Cornell University, 1893.	
LL. B., Columbian University, 1896.	
M. L., Columbian University, 1897.	
Doolittle, Henry Pelouze.....	District of Columbia.
LL. B., Columbian University, 1897.	
Dorman, Theodore Taylor .....	New Jersey.
B. S., Massachusetts Institute Technology.	
M. L., Columbian University, 1897.	
Farnsworth, Frederick Philip.....	Connecticut.
Ph. B., Yale University, 1894.	
LL. B., Yale University, 1897.	
Harrison, Walton.....	District of Columbia.
LL. B., Georgetown University, 1897.	
Heard, Nathan.....	Massachusetts.
S. B., Worcester Polytechnic Institute.	
LL. B., National University.	
LL. M., National University.	
Holt, John H.....	Georgia.
B. Sc., M. E., E. E., Alabama Polytechnic.	
LL. B., Georgetown University, 1897.	
Phelps, Francis Mohun.....	Connecticut.
LL. B., Columbian University, 1896.	
LL. M., Columbian University, 1897.	
Sewall, Eugene D.....	Massachusetts.
Adams, Melvin G.....	Mississippi.
A. B., University of Nashville.	

*Bachelor of Laws.*

Name.	Residence.
Allen, W. S.....	West Virginia.
Andrews, Burt W.....	South Carolina.
South Carolina Military Academy.	
Andrews, Khlar M .....	Pennsylvania.
Armes, Henry Beard.....	New Jersey.
A. B., Princeton University, 1896.	
Auer, Harry Anton .....	Michigan.
Austin, Walter Forward.....	Alabama.
Averill, Chester.....	Massachusetts.
Becker, Will J.....	Illinois.
M. E., Royal Polytechnique, Munich, 1891.	
Bentley, Alexander Garner.....	District of Columbia.
A. B., Yale University, 1896.	
Bourn, Byron .....	Missouri.
Bowen, Philander A., Jr.....	Maryland.
Bright, Henry Thurman.....	District of Columbia.
Burnham, Royal Edwin.....	District of Columbia.
Bynum, Dickson H.....	New York.
Byrley, John Henry.....	Kentucky.
A. B., Union College, 1894.	
Campbell, Michael K.....	Illinois.
Chase, George Phillips.....	District of Columbia.
B. S., University of Pennsylvania, 1895.	
Chesley, Willoughby Sprigg.....	Maryland.
Church, Frank M.....	New Jersey.
B. S., Georgetown College, Ky., 1896.	
Clarke, Oscar De Forest.....	District of Columbia.
Clarkson, Walter Beaumont.....	Virginia.
Colladay, Edward Francis .....	Kansas.
Crist, Frank Wiley.....	Illinois.
Crittenden, Edgar V.....	West Virginia.
Davis, Fred. L.....	Pennsylvania.
Disch, Henry George.....	Wisconsin.
Donan, Henry.....	Kentucky.
Edwards, Ogden Ellery, Jr..	New York.
B. S., Alabama Polytechnic, 1894.	
Ellison, William McElfresh.....	Virginia.

Name.	Residence.
Evans, Samuel Henry.. . . . .	Virginia.
Eversfield, Donald. . . . .	Maryland.
A. B., Maryland Agricultural College, 1896.	
Felix, Joseph Doniphan. . . . .	North Carolina.
Fontron, Joseph P. . . . .	Kansas.
Fouse, George C. . . . .	District of Columbia.
Fowler, Owen Henry. . . . .	District of Columbia.
Frost, Claude S. . . . .	New York.
Grandy, Wiley Harrison. . . . .	North Carolina.
Gray, John Pinkham, . . . . .	Idaho.
Greist, Lewis Thomas. . . . .	Indiana.
Guynes, Charlie Oscar . . . . .	Mississippi.
L.L. B., Mississippi College.	
Handy, Frederick Chaille. . . . .	Virginia.
Harris, Charles Gantt. . . . .	District of Columbia.
Harris, John Tyre . . . . .	Missouri.
Hemmings, Frederick Leeth. . . . .	Illinois.
Hobgood, Franklin P., Jr . . . . .	North Carolina.
A. B., Wake Forest College, 1896.	
Holden, Walter Armour . . . . .	Connecticut.
Holland, William Meredith. . . . .	Texas.
Horne, Pearce, Jr. . . . .	Georgia.
Johannes, George. . . . .	Pennsylvania.
Johnson, Livingston Spotswood. . . . .	Virginia.
Jones, Briggs C. . . . .	Ohio.
Keyser, Adolph G. . . . .	District of Columbia.
Kirk, William Frederick. . . . .	Texas.
Lee, Harry Holbrook. . . . .	Ohio.
Lewis, Howard S . . . . .	Kansas.
Lieuallan, William Grant. . . . .	Idaho.
Linkins, Charles. . . . .	District of Columbia.
Matthews, Charles Eugene. . . . .	Oklahoma.
McLean, Wallace Donald. . . . .	District of Columbia.
A. B., Princeton University, 1896.	
Moulton, Alston Brintnall . . . . .	Massachusetts.
B. S., Worcester Polytechnic Institute.	
Ogden, Herbert G., Jr. . . . .	District of Columbia.
E. E., Cornell University, 1896.	
Oliver, Robert Taylor. . . . .	District of Columbia.

Name.	Residence.
Parker, S. Ross.....	Missouri.
Perkins, Adam C.....	Georgia.
Powell, Wade H.....	Georgia.
Rappolee, Charles Edward.....	Kentucky.
Rill, Willard A.....	New York.
Sellhausen, Armin Frederick.....	District of Columbia.
Smith, Walter Scott.....	Alabama.

A. B., Lineville College, 1896.

Snell, Theodore Thomas .....	District of Columbia.
Snow, Alverar Erastus.....	Utah.
Stamper, William Stephen.....	Virginia.
Stine, Oliver C.....	Illinois.
Stout, John L., Jr.....	Kentucky.
Stuart, Barnwell S.....	District of Columbia.
Sullivan, La Verne L.....	Idaho.
Tait, Galen Lamar.....	District of Columbia.
Taylor, Thomas Locke.....	Virginia.
Thigpen, Edward Fort.....	Louisiana.

A. M., Keachie College, 1896.

Tindall, Philip.....	District of Columbia.
Towles, Clarence Spotswood .....	Virginia.
Tralles, Forest Paul.....	District of Columbia.
Varney, Walter Urbach .....	Virginia.
White, Herbert Arthur, U. S. A.....	Iowa.

U. S. Military Academy.

Wilson, Clarence Rich.....	District of Columbia.
Wilson, Willard B.....	Illinois.
Woolford, Thomas Guy.....	Maryland.

*Bachelor of Arts.*

Bradford, Elise.....	Maryland.
Clark, Reed Paige.....	New Hampshire.
Clark, Thatcher.....	New York.
Hinman, Mary Squire.....	Ohio.
Hoover, G. Carroll .....	Pennsylvania.
Jacobs, Frances Mabel.....	District of Columbia.
Sanderlin, Georgia .....	North Carolina.
Sterrett, Henry Hatch Dent.....	District of Columbia.
Stuart, Albert Rhett.....	South Carolina.
Ware, William George.....	Massachusetts.

*Bachelor of Science.*

Name.	Residence.
Burnside, Charles Fremont.....	District of Columbia.
Dalby, Z. Lewis..	Virginia.
Doerfling, Richard George.....	Germany.
Doyle, Aida Mary....	Pennsylvania.
Farmer, Harry.....	Iowa.
Faulkner, William Thomas....	Mississippi.
Golden, Ellen....	New York.
Harlan, Quirof.....	Maryland.
Means, Thomas Herbert.....	Virginia.
Metcalf, Gertrude Elizabeth.....	Maine.
Storm, Christian George..	Wisconsin.
Workman, Henry C. ....	Michigan.

*Electrical Engineer.*

Reisner, Fred Ferguson ....	Missouri.
B. S., Columbian University, 1897.	

*Civil Engineer.*

Hutton, William Stone.....	Indiana.
Graduate Virginia Military Institute, 1896.	

*Recapitulation.*

Students in the College. ....	100
Students in the Corcoran Scientific School. ....	246
Students in the School of Graduate Studies.....	70
Students in the Law School.....	257
Students in the School of Comparative Jurisprudence and Diplomacy. ....	90
Students in the Medical School....	213
Students in the Dental School.....	65
Students in the Summer School.....	78
Total .....	1,119

## GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

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Alabama. ....	9	Maryland.....	73	South Carolina.	12
Arizona .....	1	Massachusetts..	33	Tennessee .....	23
Arkansas .....	5	Michigan.....	30	Texas .....	14
California.....	6	Minnesota.....	13	Utah.....	2
Colorado. ....	5	Mississippi.....	11	Vermont. . . .	4
Connecticut....	12	Missouri.....	11	Virginia. ....	102
Delaware.....	1	Montana .....	3	Washington ...	3
Dist. of Col....	323	Nebraska.....	15	West Virginia..	9
Florida... ..	3	Nevada.....	1	Wisconsin.....	17
Georgia.....	17	New Hampshire	7	Wyoming.....	5
Idaho .....	2	New Jersey....	17	Canada .....	1
Illinois.....	33	New York.....	59	Chili.....	1
Indiana.....	22	North Carolina.	24	China .....	1
Ind. Territory..	3	North Dakota..	2	Germany.....	2
Iowa .....	16	Ohio .....	42	Hungary .....	1
Kansas.....	10	Oklahoma.....	2	Greece ..	1
Kentucky.....	13	Oregon.....	4	Guatemala. ..	1
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# THE COLUMBIAN UNIVERSITY.

CATALOGUE,  
1899-1900.

ANNOUNCEMENTS,  
1900-1901.



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WASHINGTON, D. C.

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FOUNDED 1821.



# THE COLUMBIAN UNIVERSITY.

CATALOGUE,  
1899-1900.

ANNOUNCEMENTS,  
1900-1901.

WASHINGTON, D. C.

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JUDD & DETWEILER, PRINTERS.

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1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
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FEBRUARY.							AUGUST.							FEBRUARY.						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
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MARCH.							SEPTEMBER.							MARCH.						
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22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
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APRIL.							OCTOBER.							APRIL.						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	..	..	..	..	..	29	30	31	..	..	..	..	29	30	31	..	..	..	..
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MAY.							NOVEMBER.							MAY.						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	..	..	..	..	29	30	31	..	..	..	..	29	30	31	..	..	..	..
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JUNE.							DECEMBER.							JUNE.						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	..	..	..	..	29	30	31	..	..	..	..	29	30	31	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

## CALENDAR.

1899.

Sept. 25, *Monday*.—Fall Examinations in Medical School and Dental School.

\* Sept. 25-27, *Monday to Wednesday*.—Examinations for Admission to Columbian College.

Sept. 27, *Wednesday*.—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Oct. 2, *Monday*.—Academic Year begins in Law School, School of Comparative Jurisprudence and Diplomacy, Medical School, and Dental School.

Nov. 30-Dec. 2, *Thursday to Saturday*.—Thanksgiving recess.

RECESS FROM DECEMBER 25, 1899, TO JANUARY 1, 1900, INCLUSIVE.

1900.

Jan. 13, *Saturday*.—Annual Meeting of the General Association of Alumni.

Jan. 26, *Friday*.—Mid-year Examinations completed in Columbian College.

Jan. 27, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Jan. 29, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 22, *Thursday*.—Washington's Birthday ; a holiday.

March 14, *Wednesday*.—Davis Prize Speaking in Columbian College.

April 13, 14, *Friday, Saturday*.—Easter holidays.

May 9, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

1900.

May 11, *Friday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 14, *Monday*.—Examinations completed in Medical School and Dental School.

May 16, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

May 21, *Monday*.—Doctorate Disputation.

May 27, *Sunday*.—Baccalaureate Sermon.

May 28–30, *Monday to Wednesday*.—Examinations for Admission to Columbian College.

May 29, *Tuesday*.—Final Examinations completed and session closed in Columbian College and Corcoran Scientific School.

May 28, *Monday*.—Commencement of Medical and Dental Schools.

May 29, *Tuesday*.—Commencement of Schools of Law.

May 30, *Wednesday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 30, *Wednesday*.—Annual Meeting of the Board of Trustees.

SUMMER VACATION.

Sept. 24, *Monday*.—Fall Examinations in Medical School and Dental School.

Sept. 24–26, *Monday to Wednesday*.—Examinations for Admission to Columbian College.

Sept. 26, *Wednesday*.—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Oct. 1, *Monday*.—Academic Year begins in Law School, School of Comparative Jurisprudence and Diplomacy, Medical School, and Dental School.

1900.

Nov. 29–Dec. 1, *Thursday to Saturday*.—Thanksgiving recess.

Dec. 5, *Wednesday*.—Annual Meeting of the General Association of Alumni.

RECESS FROM DECEMBER 24, 1900, TO JANUARY 1, 1901, INCLUSIVE.

1901.

Jan. 25, *Friday*.—Mid-year Examinations completed in Columbian College.

Jan. 26, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Jan. 28, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 21, *Thursday*.—Davis Prize Speaking in Columbian College.

Feb. 22, *Friday*.—Washington's Birthday; a holiday.

April 5, 6, *Friday, Saturday*.—Easter holidays.

May 8, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 11, *Saturday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 13, *Monday*.—Examinations completed in Medical School and Dental School.

May 15, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

May 20, *Monday*.—Doctorate Disputation.

May 26, *Sunday*.—Baccalaureate Sermon.

May 27–29, *Monday to Wednesday*.—Examinations for Admission to Columbian College.

May 28, *Tuesday*.—Final Examinations completed and session closed in Columbian College and Corcoran Scientific School.



1901.

May 27, *Monday*.—Commencement of Medical and Dental Schools.

May 28, *Tuesday*.—Commencement of Schools of Law.

May 29, *Wednesday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 29, *Wednesday*.—Annual Meeting of the Board of Trustees.

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## EDUCATIONAL ADVANTAGES OF WASHINGTON.

The Columbian University has special educational advantages in virtue of its location at the National Capital. The spirit of nationalism in Washington, the close association with public men and public questions, constitute a humanizing influence of the greatest value in the development of the American scholar. To the undergraduate or graduate student of the arts and sciences, to the professional student in law, diplomacy, medicine, or dentistry, Washington furnishes opportunities and facilities for study unrivalled by any American city. Special libraries and large collections, illustrative of the various arts and sciences, have been accumulated by the action of Congress through a long series of years.

In view of the fact that in collecting such archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority*

as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
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7. Of the Department of Agriculture.
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To students of Law and of Diplomacy the peculiar advantages of Washington are manifest. The Supreme Court is in session from October to May, and on each Monday morning delivers opinions orally. Students may listen to these and thus keep in touch with the latest utterances of the greatest court. The Supreme Court Library is open to students, and the State Department, with its large library, affords facilities for the study of diplomacy. Congress is in session during the winter, and here the student sees the practical workings of the largest and most important legislative body, and listens to the discussion of matters touching interstate and foreign commerce and diplomatic relations. Here one comes into contact with the practical workings of the National Government in all its parts, and may secure the views and advice of practical men in all the great departments.

Many of the lecturers in the Schools of Law occupy the most important official positions in the gift of the nation and speak from a practical knowledge of the subjects they teach.

To students of Medicine and of Dentistry the facilities for study and research are no less remarkable. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. It has an unrivalled collection of anatomical

and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs.

At the United States Patent Office models of every conceivable form of dental instruments may be daily inspected, thus affording to the student an invaluable opportunity for studying the mechanical contrivances used in dental practice.

In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Of great interest also are the Government Botanical Gardens and the grounds of the Agricultural Department, where there are rare collections of medicinal plants, from which are derived many of the preparations of the *Materia Medica*.

Statesmen, jurists, diplomatists, and legislators are in Washington. Scientific investigations conducted by the Government attract the most eminent scientists; the directory of the Washington Academy of Sciences and Affiliated Societies shows for 1900 a membership of 1,965. The National Capital is a place of meeting for scientific associations and international congresses of all kinds. It is the one city where the student from any part of the country is sure to find a congenial environment.

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*Assistant in Geology,*   809 Twenty-first Street

NORMAN UNDERWOOD,

*Student-Assistant in Chemistry,*   1407 Tenth Street

WILLIS VAN DEVANTER,

*Professor of Equity Pleading and Practice,*  
2108 Wyoming Avenue

JOHN VAN RENSSELAER, A. B., M. D.,

*Professor of Surgical Pathology and Professor of Clinical  
Surgery,*   2 Thomas Circle

WILLIAM K. WARD, M. D.,

*Resident Physician of the University Hospital,*  
1756 Pennsylvania Avenue

WILLIAM S. WASHBURN, M. D.,

*Professor of Normal Histology,*   1223 M Street

R. WASHINGTON, M. D.,

*Assistant Demonstrator of Anatomy.*

- JOHN R. WELLINGTON, A. M., M. D.  
*Demonstrator of Minor Surgery,* 1335 N Street
- MAX WEST, PH. D.,  
*Associate Professor of Economics,* 2217 Fifteenth Street
- CABELL WHITEHEAD, PH. D.,  
*Lecturer on Metallurgy,* 1102 N Street
- WILLIAM ALLEN WILBUR, A. M.,  
*Professor of English,* 1819 Riggs Place
- HARVEY WASHINGTON WILEY, PH. D., M. D.,  
*Professor of Agricultural Chemistry,* 1314 Tenth Street
- THOMAS A. WILLIAMS, A. M.,  
*Assistant Professor of Botany,* Takoma Park
- WILLIAM P. WILSON, SC. D.,  
*Professor of International Trade and Commercial Geography,*  
 Philadelphia, Pa.
- FRANK A. WOLFF, JR., PH. D.,  
*Professor of Physics and Electrical Engineering,*  
 1419 R Street
- SAMUEL WALTER WOODWARD,  
*Treasurer,* 2015 Wyoming Avenue
- CARROLL D. WRIGHT, LL. D.,  
*Professor of Statistics and Economics,* 1345 Vermont Avenue
- HENRY C. YARROW, M. D.,  
*Professor of Dermatology* 814 Seventeenth Street

## JANITORS.

- WALTER L. LEWIS, University Hall.
- RIXON T. HARRIS, University Hall.
- RICHARD A. HAWKINS, University Hall.
- WALTER HONESTY, Medical School.
- ROBERT HAMILTON, Medical School.
- HEZEKIAH RANDOLPH, Law Lecture Hall.
- JOHN STEWART, The University Hospital.

# THE COLUMBIAN COLLEGE.

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## THE FACULTY.

\* REV. BENAIHA L. WHITMAN, D. D., LL. D.,  
*President.*

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

REV. ADONIRAM J. HUNTINGTON, D. D.,  
*Dean,*  
Professor of Greek.

REV. SAMUEL M. SHUTE, D. D.,  
Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,  
Professor of Mathematics and Secretary of the Faculty.

HOWARD L. HODGKINS, PH. D.,  
Professor of Physics.

REV. JAMES MACBRIDE STERRETT, D. D.,  
Professor of Intellectual and Moral Philosophy.

CHARLES E. MUNROE, PH. D.,  
Professor of Chemistry.

HERMANN SCHOENFELD, PH. D.,  
Professor of Modern Languages.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

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\* Resigned March 31, 1900.

## THE COLUMBIAN UNIVERSITY.

MARATHON MONTROSE RAMSEY, A. M.,

Professor of Romance Languages.

CHARLES C. SWISHER, PH. D.,

Professor of History and Political Science.

WILLIAM ALLEN WILBUR, A. M.,

Professor of English.

MITCHELL CARROLL, PH. D.,

Professor of Greek and Latin.

\* ——— ———,

Instructor in Greek and Latin.

\* ——— ———,

Instructor in Modern Languages.

—————

MEMBERS OF THE FACULTY OF THE CORCORAN SCIENTIFIC  
SCHOOL OFFERING COURSES OPEN TO COLLÈGE STUDENTS.

GEORGE P. MERRILL, PH. D.,

Professor of Geology and Mineralogy.

F. LAMSON-SCRIBNER, B. S.,

Professor of Botany.

HERBERT L. RICE, M. S.,

Professor of Astronomy.

PAUL BARTSCH, B. S.,

Instructor in Botany.

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\*Appointments to be made by September, 1900.

## STANDING COMMITTEES OF THE FACULTY.

*Committee on Admission of Students.*

Professors WILBUR, POLLARD, and SWISHER.

*Committee on Degrees.*

Professors GORE, HODGKINS, and WILBUR.

*Committee on the Library.*

Professors MUNROE, RAMSEY, and SCHOENFELD.

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## COURSES OF INSTRUCTION.

The regular courses of instruction are comprised in eleven departments, as follows :

- I. BIBLICAL LITERATURE.
- II. CHEMISTRY: General, Inorganic and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis
- III. ENGLISH: The English Language and Literature, Rhetoric and Composition.
- IV. GERMANIC LANGUAGE AND LITERATURE.
- V. GREEK: The Greek Language and Literature.
- VI. HISTORY AND POLITICAL SCIENCE.
- VII. LATIN: The Latin Language and Literature.
- VIII. MATHEMATICS: Pure Mathematics and Mechanics.
- IX. PHILOSOPHY.
- X. PHYSICS.
- XI. ROMANCE LANGUAGES: The French Language and Literature and the Spanish Language and Literature.

THE CORCORAN SCIENTIFIC SCHOOL offers courses in Astronomy, Botany, Geology and Mineralogy, and Zoölogy, which are open to College students.

SCHEDULE OF RECITATIONS FOR THE SESSION OF 1899-1900.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Freshman.	9.15-10.10 Mathematics.	Greek.	Mathematics.	Latin.	Mathematics.
	10.10-11.05 Physics.	Physics.	English Literature.	{ Greek. Physics.	Latin.
	11.05-12.00 Chemistry.		Chemistry.	Chemistry.	French.
	12.30- 1.25 French.	French.	Latin.	German.	Greek.
	1.25- 2.20 German.	English.	German.	English.	
	2.20- 3.15 Chemical Laboratory.			Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory.			Chemical Laboratory.	
Sophomore.	9.15-10.10 Latin.	English.	History.	German.	French.
	10.10-11.05 Physics (A. B.).	Physics (A. B.).	Mathematics.	Physics (A. B.).	{ Greek. Physics.
	11.05-12.00 Chemistry.	Mathematics,	Chemistry.	Chemistry.	Latin.
	12.30- 1.25 English.	German.	English.	{ Greek. Physics.	German.
	1.25- 2.20 { Greek. Physics.	French.	French.	History.	Mathematics.
	2.20- 3.15 Chemical Laboratory.	History.	{ Latin. Chemical Laboratory.	Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory.		Chemical Laboratory.	Chemical Laboratory.	

Arrangements for classes not scheduled will be made upon application.

# THE COLUMBIAN COLLEGE.

5

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
<div>Junior</div>	9.15-10.10 10.10-11.05	German. Latin.	German. Latin	English. Latin.	Biblical Literature. German.
	11.05-12.00	Psychology. Mathematics.	{ Greek. Physics.	Psychology.	Mathematics.
	12.30- 1.25	French.	Biblical Literature.	French.	{ English. Physics.
	1.25- 2.20	{ Greek. Physics.	History.	{ Logic. Biblical Literature.	{ Physics. Physics. Greek.
	2.20- 3.15	Physics.	{ French. Chemical Laboratory.	{ History. Chemical Laboratory.	
	3.15- 4.15	Biblical Literature.	Chemical Laboratory.	Chemical Laboratory.	
<div>Senior</div>	9.15-10.10 10.10-11.05 11.05-12.00	German. Ethics. { English. Physics.	Political Economy. Greek; Physics. Latin. { French. Biblical Literature German.	Ethics. Biblical Literature. Mathematics.	Latin. English. German.
	12.30- 1.25	Biblical Literature.	English.	{ French. Greek. Biblical Literature	Physics.
	1.25- 2.20	Spanish.	{ Chemical Laboratory. Mathematics. Spanish. Chemical Laboratory.	{ Spanish. Chemical Laboratory.	Physics.
	2.20- 3.15	{ French. Biblical Literature		{ History; Chemical Laboratory.	History.
	3.15- 4.15				

## I.—BIBLICAL LITERATURE.

PROFESSOR POLLARD.

In this department the history, the contents, and literary forms of the Old and New Testaments are taught. The aim is not theological or dogmatic, but literary and historical, the student being guided into correct methods of Bible study and enabled to realize the cultural value of the Biblical classics.

The following courses were offered for the session 1899-1900:

1.3-4.\* Hebrew Law and Hebrew Prophecy. A study of the national and religious ideals of Israel. † Two hours.

2.3-4. The Hebrew Poetry and the Wisdom Literature. Study in the Psalms and the writings of the "Wise Men" of Israel. Two hours.

3.3-4. History of the Hebrew People—studied in the light of modern excavation and research. One hour.

4.3-4. History of New Testament Times, especially dealing with the life of Jesus and of Paul. Two hours.

5.3-4. The History of the English Bible and its influence upon English life and letters. One hour.

6.3-4. New Testament Greek. Readings in the Gospels and Epistles, with reference not only to their contents, but also to the Hebraic influence upon the language, and the divergences of the Hellenistic Greek from classic usage. A working knowledge of classic Greek is presupposed.

7.3-4. The Hebrew Language. A study of Hebrew Grammar, and selected readings from the Hebrew Bible. Two hours.

(These courses will not be offered in 1900-1901.)

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\* Decimals indicate the year in which the course is taken: Freshman, .1; Sophomore, .2; Junior, .3. Senior, .4. Courses open to Juniors and Seniors, .3-4.

† Unless otherwise stated, hours per week throughout the year.



## II.—CHEMISTRY.

PROFESSOR MUNROE.

MR. UNDERWOOD, Student-Assistant.

21.1-2. General, Inorganic and Organic Chemistry; lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Three hours.

Barker's Elementary Chemistry; Remsen's Organic Chemistry.

22.1-2. Laboratory Practice; a laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two periods.

Cooke's Laboratory Practice.

23.2. Preparation of and Study of the Properties of Chemical Substances. Three periods.

Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

24.3. Qualitative Analysis. Three periods.

Newth's Manual of Chemical Analysis.

25.4. Quantitative Analysis. Three periods.

Newth's Manual of Chemical Analysis.

Students must provide themselves in all the laboratory courses with note-books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University.

## III.—ENGLISH.

PROFESSOR WILBUR.

Courses of study in the department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evo-

lution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

*Rhetoric and Composition.*

41.1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books, *Practical Elements of Rhetoric*, Genung; *Handbook of Rhetorical Analysis*, Genung.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) a verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Two hours.

42.2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Three hours.

43.3. English Composition. (Text-book, Wendell's *English Composition*.) Practice in various forms of discourse and studies in criticism. This is an advanced course in English composition. Essays are written weekly. These are exchanged, and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.

*Language and Literature.*

44.1. The Literature of England. A lecture course, historical and critical. Members of the class will read Taine's *History of English Literature* and make a special study of some period. One hour.

45.3. Spenser and Milton. A comparative study of Elizabethan and Puritan poetry. Three hours, first term. *Not offered in 1900-1901.*

46.3. The Literature of America. Lectures in history and criticism; discussions and papers on representative men and books. Two hours, second term.

47.3. The English Novel. Development of the novel, with critical studies of selected works. Two hours, first term. *Not offered in 1899-1900.*

48.4. Shakespeare. Selected plays studied comparatively. Moulton's *Shakespeare as a Dramatic Artist* is used. The *Temple Shakespeare* is recommended. Two hours.

49.3-4. Old English. Elementary course. (Text-books, *First Book in Old English*, Cook; *Exercises in Old English*, Cook.) The essentials of the grammar and the reading of Old English texts. Two hours.

#### IV.—GERMANIC LANGUAGE AND LITERATURE.

PROFESSOR SCHOENFELD.

Instruction in this department has, as its primary object, a thorough knowledge of the grammar and familiarity with the literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

61.1. The deeper aspects of grammar; accurate training in phonetics and translation into German; conversation; readings from the best German prosaists and poets. Three hours.

62.2. Advanced course in German syntax; extensive translation into German; selected advanced prose; classical reading and literature; elements of German history. Three hours.

63.3. Study of the principal difficulties of the language; idioms, synonyms (Sanders' *Hauptschwierigkeiten der deutschen Sprache*); German essays; literature of the second German Blüteperiode; German history and science (Humboldt's *Kosmos*); extensive reading from the classics. Three hours.

64.4. Elements of philology; survey of German literature and its relation to the other Germanic peoples; history of the old

and the new German Empire; extensive classical reading; introduction into the *Nibelungen Lied* and the *Gudrun Saga*; selected poems of Walther von der Vogelweide. Three hours.

*Elementary German.*—For those students who have not fulfilled the entrance conditions in German, a preliminary course (not counting toward a degree) will be given in elementary grammar, narrative prose, and such poetry as is usually found in a First Reader. Special stress will be laid on exercises in composition. Three hours.

## V.—GREEK.

PROFESSOR HUNTINGTON.

In this department instruction is given in the Greek Language and Literature. The following books are used as text-books: Goodwin's and Hadley's Greek Grammars, and Allinson's Greek Prose Composition.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering English into Greek, and especially English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kühner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's or Long's or Ginn and Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Smith's, Grote's, and Curtius' Histories of Greece are recommended to students in all the classes.

81.1. Homer; Herodotus. Three hours.

82.2 Xenophon (*Memorabilia*); Lucian. Three hours, first term.

83.2. Isocrates and Lucian. Three hours, second term.

84.3. Sophocles, Euripides, Thucydides, and Demosthenes. Three hours.

85.4. Plato and Æschylus, or Aristophanes. Two hours.

## VI.—HISTORY AND POLITICAL SCIENCE.

## PROFESSOR SWISHER.

The required work in History is in the Sophomore year, and it embraces a careful survey of the more important facts of Mediæval History in their relation of cause and effect. It is designed almost exclusively as a preparation for the fuller election of the two following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the School of Graduate Studies. The work is conducted by means of text-books, lectures, reading, and reports, in all of which it is sought to familiarize the student with original sources.

*European History.*

101.2. Mediæval History. Three hours, first term.

102.2. Renaissance and Protestant Reformation. Three hours, second term.

103.3. Rise and Fall of French Ascendency. Three hours, first term.

104.3. French Revolution and Napoleonic Wars. Three hours, second term.

105.4. Political History of Europe, from Congress of Vienna to that of Berlin. Three hours, first term.

106.4. Present Political Situation in Europe. Three hours, second term.

*English History.\**

107.3-4. English History through the Revolution of 1688. Three hours, first term.

108.3-4. The British Empire—Development and Expansion after the Treaty of Utrecht. Three hours, second term.

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\* Given in alternate years.

109.3-4. English Constitutional History. Two hours, one term.

*American History.\**

110.3-4. Colonial and Revolutionary Periods to the Adoption of the Federal Constitution. Three hours, first term.

111.3-4. Political Development of the Nation from the Adoption of the Constitution to the Present Time. Three hours, second term.

112.3-4. American Constitutional History. Two hours, one term.

*Political Science.*

115.3-4. (a) A study of the nature and development of Political Institutions.

(b) A comparative study of Modern Governmental Institutions, especially those of the United States, England, France-Germany, and Switzerland; conducted with text-book lectures and reports. Two hours, first term.

116.3-4. A study of some Modern Questions of International Politics—*e. g.*, the Eastern Question, the African Question, England in Egypt, and the Far East. Lectures. Two hours, second term.

## VII.—LATIN.

### PROFESSOR CARROLL.

The instruction in this department has in view (1) as thorough knowledge as possible of the idiomatic forms and syntactical relations of the Latin Language; (2) an appreciation of the genius of the Roman people as set forth in their literature. The former is sought through careful translation into English at each recitation, and one exercise each week in Latin Prose; the latter through informal lectures, suggested by the text under discussion, on the origin and development of the different branches of literature, and on social and political life.

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\* Given in alternate years.

The following courses, subject to slight changes, are given :

121.1. Cicero (*De Senectute* or *De Amicitia*), Horace (*Odes*). Three hours, first term.

122.1. Pliny (*Selected Letters*); Livy (*Books I and II or XXI and XXII*). Three hours, second term.

123.2. Horace (*Satires and Epistles*). Three hours, first term.

124.2. Tacitus (*Agricola*), Cicero (*Selected Letters*). Three hours, second term.

125.3. Tacitus (*Germania and Annals I and II*). Three hours, first term.

126.3. Juvenal, Cicero (*De Oratore*). Three hours, second term.

127.4. Quintilian (*Book X*), Plautus (*Captivi*), Terence (*Phormio*). *Primer of Roman Literature*. Three hours, first term.

128.4. Lucretius (*Book I*), Catullus, Vergil (*Selections studied from literary standpoint*). Three hours, second term.

Prose Composition in each course.

## VIII.—MATHEMATICS.

PROFESSOR GORE.

In this department instruction is offered in twelve courses.

141.1. Solid Geometry; Gore's *Plane and Solid Geometry*. Three hours, for two months.

142.1. Algebra, including *Determinants*; Taylor's *Algebra*. Three hours, for three months.

143.1. Plane Trigonometry; Wells' *Trigonometry*. Three hours, for two months.

144.2. Spherical Trigonometry; Wells' *Trigonometry*. Three hours, for two months.

145.2. Analytic Geometry; Nichols' Analytic Geometry. Three hours, for four months.

146.2. Theory of Equations; Chapman's Theory of Equations. Three hours, for two months.

147.3. Differential and Integral Calculus, Taylor. Three hours, for five months.

148.3. Differential Equations; lectures, notes by the professor. Three hours, for three months.

149.4. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours, for one term.

150.4. Elliptic Functions, Baker. Two hours, for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

#### *Optional Courses.*

151.4. Analytical Mechanics. One hour.

152.4. Theory of Probabilities, with Applications to Least Squares; Lectures, notes by the professor. One hour.

### IX.—PHILOSOPHY.

#### PROFESSOR STERRETT.

The special studies in this department are pursued in the two upper classes.

161.3. Logic. Jevons-Hill, *Elements of Logic*, is used as a text-book. One hour.

162.3. Psychology. The first term is given to the study of Psychology, the aim being to make this work a preparation for



an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations.

Dewey and Harris are used as hand-books, with lectures, themes, and constant reference to the leading works on Psychology. Three hours, first term.

163.3. History of Philosophy. The second term is given to (1) the study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-books—Schwegler and Weber; (2) the statement and discussion of the fundamental problems of philosophy. Three hours, second term.

164.4. Ethical Theories—historical course. The Senior Class spends the first half of the year in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. Three hours, first term.

165.4. Theory of Ethics. A critical and constructive theory of ethics. McKenzie's *Manual of Ethics* and Dewey's *Outlines of Ethics* are put into the hands of the students for use. Three hours, second term.

A course of lectures is also given on the fundamental postulates, concepts, and principles of Christian Ethics.

This is followed by a six weeks' course on the Philosophy of History, or with course on Philosophy of Education.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon), and for attendance on the course of papers and discussions before *The Society for Philosophical Inquiry*, meeting at the University every Tuesday afternoon. The program of the Society for the current year is a critical study of the fundamental concepts and theories of modern physical science.

*Courses—Alternate and Elective.*

166. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. One hour, first term.

167. History of Ancient Philosophy. Lectures, with study of some of the text, and *Zeller's History*. Three hours, second term.

168. History of Modern Philosophy, alternating with (167) Lectures, with study of text of several systems and with reference to Falkenburg and Windelband. Three hours, second term.

169. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. *Painter and Rosenkranz*. Elective. One hour, second term.

170. The Metaphysics of Ethics. Study of Green's *Prolegomena to Ethics*. One hour, second term.

*Political Economy.*

175.4. Political Economy, using Marshall's *Economics of Industry* as a text-book, supplemented with studies in socialism, the labor question, and other current economic and social problems. Three hours.

## X.—PHYSICS.

## PROFESSOR HODGKINS.

181.1-2. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures are illustrated by experiments, and are based on Gage's *Principles of Physics*. Three hours.

182.2. An advanced course on General Physics. This is a theoretical and mathematical course, and it requires a thorough acquaintance with the phenomena of Physics. Three hours.

183.3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of

the principles of Physics as gained in course 181. Lectures on physical theories and on laboratory methods are given from time to time. Topics for study and discussion are assigned to the whole class, and to different members of the class are assigned subjects upon which to prepare special reports. Three periods.

184.3-4. A lecture and laboratory course in Magnetism and Electricity. Three periods.

185.3-4. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three periods.

186.3-4. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three periods.

## XI.—ROMANCE LANGUAGES.

PROFESSOR RAMSEY.

### *French Language and Literature.*

221.1. The class undergoes a thorough drill in pronunciation and becomes familiar with spoken French, as from the outset a large part of the instruction is given in that language. In the study of the grammar especial stress is laid upon acquiring a readiness in applying the principles learned, and to this end graded exercises are rendered, both orally and in writing, into French. During the last term the students prepare exercises based upon portions of the works read in class. Three hours.

Text-books: Whitney's Practical French Grammar; François, Exercises in French Prose Composition; Hennequin's Lessons in Idiomatic French; Edmond About, *Le Roi des Montagnes*; Labiche and Delacour, *Les Petits Oiseaux*.

222.2. The first term is devoted mainly to a review of the grammar, with abundant exercises in both oral and written translation. During the remainder of the year the syntax is carefully studied and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. Three hours.

Text-books: Bevier's French Grammar; Chardenal's French Exercises for Advanced Pupils; Roulier's Second Book of French

Composition ; Augier, *La Pierre de Touche* ; Flaubert, *Le Roman d'un Jeune Homme Pauvre* ; Sandeau, *Mlle. de la Seiglière*.

223.3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Doumic's *Histoire de la Littérature Française* is used as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally, the class is instructed in the broader principles of rhetoric and style. During the year the students read and summarize (outside of class hours) some twenty representative works of the Mediæval and Classic periods. (These works are furnished from the French Seminar Library.) Three hours.

Text-books: René Doumic, *Histoire de la Littérature Française*; original works as above.

224.4. The study of the literature is continued in this year largely by the reading of original works and French criticisms thereof, the students preparing digests and reviews of the works that pass under their notice, to be discussed in class. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from the representative works of the present century. (These are furnished from the French Seminar Library.) Three hours.

Text-books: Pellissier, *Mouvement Littéraire au XIX<sup>me</sup> siècle*; original works as above.

*Elementary French.*—Elementary instruction (not counting toward a degree) is now provided for students not meeting the entrance requirements. Two hours.

Text-books: Chardenal's Complete French Course; Collet's French Conversation.

#### *Spanish Language and Literature.*

(Requirements for admission : Latin, 121, 122 ; French, 221, 222.)

231.3-4. The study of the language is taken up at the first elements, especial stress being laid upon the acquisition of a correct pronunciation. The principles of the grammar and syntax are studied and enforced by the translation of exercises into Spanish. The class is familiarized from the outset with the spoken lan-

guage by means of descriptive talks upon simple topics, and later by its use as the medium of instruction. Three hours.

Text-books: Ramsey's Text-Book of Modern Spanish, Elementary Spanish Reader, and Spanish Prose Composition.

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DEPARTMENTS IN THE CORCORAN SCIENTIFIC SCHOOL OPEN TO  
COLLEGE STUDENTS.

- Astronomy (see page 61).
- Botany (see page 62).
- Geology and Mineralogy (see page 71).
- Zoölogy (see page 90).

### ADMISSION.

The College is open to young men and young women.

The session of 1900-1901 begins September 26, 1900.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

#### I.

##### *Admission to Courses Leading to Degrees.*

Candidates for admission to the Freshman Class are examined in certain required books and subjects. Certificates, in lieu of any or all examinations, will be accepted (1) from schools whose work is attested by well-prepared students admitted to the College in previous years, and (2) from schools desiring coöperation with the College, that present evidence of affording adequate preparation in the required books and subjects. The chairman of the Committee on Admission of Students will, on application, furnish certificate blanks to the principals of such accredited schools.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., in May, 1900. A second examination is held at the beginning of the college year, in September. The following is the schedule for both examinations:

## ORDER OF MAY EXAMINATIONS.

*Monday, May 28, 1900.*

[Registration of applicants in room 25.....	8.30- 9.00]
Latin.....	9.00-11.00
Plane Geometry ; Solid Geometry.....	11.00- 1.00
Algebra (a) ; Algebra (b).....	2.00- 4.00

*Tuesday, May 29.*

Greek ; Physics ; Chemistry.....	9.00-11.00
History .....	11.00- 1.00
German.....	2.00- 4.00

*Wednesday, May 30.*

Plane Trigonometry.....	9.00-11.00
French.....	11.00- 1.00
English.....	2.00- 4.00

## ORDER OF SEPTEMBER EXAMINATIONS.

*Monday, September 24, 1900.*

[Registration of applicants in room 25.....	8.30- 9.00]
Latin .....	9.00-11.00
Plane Geometry ; Solid Geometry.....	11.00- 1.00
Algebra (a) ; Algebra (b).....	2.00- 4.00

*Tuesday, September 25.*

Greek ; Physics ; Chemistry.....	9.00-11.00
History .....	11.00- 1.00
German.....	2.00- 4.00

*Wednesday, September 26.*

Plane Trigonometry .....	11.00- 1.00
French.....	1.30- 3.30
English .....	3.30- 5.30

The College is prepared to appoint examinations in any city, or at any school where the number of applicants or the distance from Washington may warrant it. Correspondence on this subject should be addressed to the Dean of the College.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

*Candidates for admission to the course leading to the degree of Bachelor of Arts* are examined in English, Greek, Latin, Greek and Roman History, French or German, Algebra (a) and Plane Geometry.

*Candidates for admission to the course leading to the degree of Bachelor of Science* are examined in English, Algebra (a), Algebra (b), Plane Geometry, Solid Geometry, Plane Trigonometry, Physics or Chemistry, English and American History (or Greek and Roman), and in two of the following languages: French, German, Latin.

Requirements for admission to the several departments are as follows:

#### *English.*

Candidates are expected to be familiar with the elements of Rhetoric, and no candidate will be accepted whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Practice.*—The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is to test the candidate's power of clear and accurate expression. In place of a part or the whole of this test, the candidate may be allowed to present an exercise-book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination are:

In 1900: Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

In 1901: George Eliot's *Silas Marner*; Pope's Translation of the *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*.

In 1902: George Eliot's *Silas Marner*; Pope's Translation of the *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*.

2. *Study and Practice*.—This part of the examination requires a more careful study of each of the works named.

It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are:

In 1900; Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901: Shakespeare's *Macbeth*; Milton's *L'Allegro, Il Penseroso, Comus, and Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1902: Shakespeare's *Macbeth*; Milton's *L'Allegro, Il Penseroso, Comus, and Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

### *Greek.*

1. Goodwin's or Hadley's *Greek Grammar*.
2. Goodwin's *Greek Reader* or Xenophon's *Anabasis*, Books 1-4.
3. First three books of Homer's *Iliad*.



4. Jones' Greek Prose Composition.

5. Greek History. (See under Admission in History.)

Applicants for admission to the Freshman Class are expected to be thoroughly acquainted with all the principal topics of the Greek Grammar of Goodwin or of Allen's Hadley, including the Derivation and Composition of Words, Accent, and the elements of Prosody, especially the construction of Dactylic Hexameter.

They will be required to translate into good English two or three passages of the prescribed portions of Homer, and also of Xenophon, and to show a familiarity with the grammatical forms and constructions included, or with others which might be used instead.

They will also be expected to translate at sight selections from one of the other books of the Iliad and of the Anabasis.

Also to translate English sentences in connected discourse into idiomatic Greek, with the proper accents and with the mention of other construction which might be used.

### *Latin.*

Candidates are expected to have taken a systematic course in Latin, extending at least through three years, five times per week; to have had training in translating English into Latin throughout the entire course, and during the last half, at least, the translation of connected English prose.

It is expected that the following work, barring slight variations, will have been done:

1. Beginner's Book and 30 to 40 pages of easy Latin.
2. Four books of Cæsar, Nepos.
3. Cicero: Catiline Orations, pro Archia, and pro Milone, or its equivalent.
4. First six books of Vergil's *Æneid*.
5. Roman History. (See under Admission in History.) The examination will be in two parts:

(a.) Translation of passages selected from the work above outlined and a short passage of prose to be read at sight. The translation must be in idiomatic English. To attain facility in this, frequent written translations during the years of preparation are advised.

(b.) The examination in Grammar and Composition for 1900 will be based on the first three orations of Cicero against Catiline. A thorough test of form and syntax will be given. The composition will be connected English based on this vocabulary, and will contain no construction not found in these orations.

*French.*

1. A knowledge of the essentials of the grammar.
2. An ability to read at sight ordinarily easy French prose.
3. An ability to translate easy English exercises into French.

The examination is adapted to the proficiency of those who have studied French to the equivalent of a systematic course of three hours a week for eight months. It consists of three parts, covering the ground indicated above. These parts may not be taken separately.

(a.) The grammatical knowledge required includes the leading uses of the articles (including the "partitive construction"), the formation of the plurals of nouns, and of the feminine forms of adjectives; the comparison of adjectives and adverbs, the distinctions between the two sets of objective forms of personal pronouns, location of objective personal pronouns, negative and interrogative sentences, the entire conjugation of *être*, *avoir*, and the model verbs, and the leading tense forms of the more usual irregular verbs. Rare and unusual words and forms are in all cases excluded.

(b.) The passages set for translation into English are suited to candidates who have read not less than three hundred duodecimo pages, which must be from the works of at least two authors; this amount includes sight reading done in class. It is important that all translation be done into clear and idiomatic English.

(c.) The sentences given to be rendered into French are such as would be found in an ordinary text-book for beginners.

*German.*

Candidates are expected to have an accurate knowledge of elementary grammar, including the principal syntactical laws of the language. A careful preparatory study of Otis' German Grammar or Joynes-Meissner or Edgren-Fossler or Calvin Thomas' German Grammar (part I) will give sufficient train-

ing in the language. The knowledge of the candidate will be tested by a written examination in German composition and the writing of an easy theme in German.

The oral examination will consist in the reading at sight of narrative prose and such poetry as is usually found in a First Reader. About one hundred and fifty pages of an elementary text-book, accurately studied, will be considered a sufficient preparation. Special stress will be laid upon a good German pronunciation.

### *History.*

Candidates for admission to the course leading to the degree of Bachelor of Arts will be examined in the following subjects:

Greek History, through the Roman Conquest, as much as is contained in Myers' History of Greece.

Roman History, as much as is contained in Allen's History of the Roman People.

Candidates for admission to the course leading to the degree of Bachelor of Science will be examined in the following subjects:

English History, as much as is contained in Montgomery's History of England.

American History, as much as is contained in Alexander Johnston's History of the United States.

### *Mathematics.*

Algebra (a). Factoring, fractions, equations of the first degree, with one or more unknown quantities, solution of problems, inequalities, powers and roots, reduction of radicals, quadratic equations.

Algebra (b). Quadratic equations, ratio and proportion, progressions, permutations and combinations, binomial theorem, undetermined coefficients.

Plane Geometry. Demonstrations, constructions, computation of areas.

Solid Geometry. Demonstrations, computation of surfaces and volumes.

Plane Trigonometry, including the solution of trigonometric equations.

*Physics.*

Candidates must show an acquaintance with the more important phenomena of physics, and with the principles involved in the explanation of them. They must be able to solve simple numerical problems, and must understand the metric system. Gage's Introduction to Physical Science or Carhart and Chute's Physics will give suitable preparation, if supplemented by laboratory work. The laboratory note-book must be shown at the time of the examination. One year's study, five periods a week, will probably give the preparation needed; but in any case the entire subject, as treated in a book of the grade indicated above, must be completed.

*Chemistry.*

Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation. This requirement presupposes a systematic course of two hours of class-room exercises and three hours of laboratory work per week for a period of eight months.

## • II.

*Admission to Special Courses.*

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study by the head of the department. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

Every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections *not less than three distinct departments, with at least twelve recitations or lectures a week*. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

No one is admitted as a special student who has within four months of the time of his application been rejected by the Committee on Admissions as a regular student or has within that time become deficient as a regular student.

## III.

*Admission to Advanced Standing.*

Candidates for admission to an advanced class in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued elsewhere.

## DEGREES.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "School of Graduate Studies" in this Catalogue.

*Course of Study Leading to the Degree of Bachelor of Arts.*

(The figures refer to the numbers of the courses in the several departments of the College, as previously described.)

## FRESHMAN YEAR.

English, 41, 44.	{ French, 221 ; or German, 61.
Greek, 81.	
Latin, 121, 122.	
	Mathematics, 141, 142, 143.

## SOPHOMORE YEAR.

English, 42.	{ French, 222 ; or German, 62.
{ Greek, 82, 83 ; or Latin, 123, 124.	
History, 101, 102.	{ Chemistry, 21, 22 ; or Physics, 181.

## JUNIOR YEAR.

{ Greek, 84 ; or Latin, 125, 126.	Philosophy, 162, 163.
Elective, 9 hours a week.	

## SENIOR YEAR.

Philosophy, 164, 165, 175.  
Elective, 9 hours a week.

*Course of Study Leading to the Degree of Bachelor of Science.***FRESHMAN YEAR.**

\*Two of the following:

English, 41, 44.

French, 221.

Chemistry, 21, 22.

German, 61.

Physics, 181.

Latin, 121, 122.

**SOPHOMORE YEAR.**

{ French, 222; or

History, 101, 102.

{ German, 62.

Chemistry, 23.

Mathematics, 144, 145, 146.

Physics, 182.

**JUNIOR YEAR.**

Mathematics, 147, 148.

{ Chemistry, 24; or

{ Physics, 183.

Elective, 9 hours a week.

**SENIOR YEAR.**

Elective, 15 hours a week.

**EXAMINATIONS.**

At the end of each term examinations are held in the studies of that term.

The results of the term examinations are combined with those of the daily recitations of the student during the term in order to ascertain his academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and failing to do so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement. In

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\* The two languages presented at entrance will be continued through the Freshman year.

order to graduate, students must obtain at least 75 *per cent.* in the final examinations on all of the subjects.

Examinations for prizes are concluded three weeks before the end of each scholastic year.

### ANNUAL PRIZES.

Beside the honors and degrees conferred in the regular course, prizes are annually offered as rewards for special excellence in particular branches of study.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from any Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance in the College for one year.

The Class of '96 James Macbride Sterrett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees are allowed to compete.

The Davis Prizes, for excellence in Composition and Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. Senior students pursuing regular courses of study are eligible to compete for these prizes.

### PRIZE AWARDS, 1899.

Staughton Prize, Lida Draper.

Elton Prize, Elsie Madeleine McKelden, Alphonso Augustus Hobson.

Ruggles Prize, Elsie Madeleine McKelden.

Gore Prize in Parliamentary Law, J. William Beatty.  
James Macbride Sterrett, Jr., Prize in Physics, Harry Bradley Smith.  
First Davis Prize in Elocution, Preston Blair Ray.  
Second Davis Prize in Elocution, Alphonso Augustus Hobson.  
Munroe Prize, Frances Sanders.

### ANNUAL COMMENCEMENT.

The Annual Commencement is held on the Wednesday nearest the first of June.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any department are publicly delivered on the same day.

### PUBLIC WORSHIP.

Brief devotional exercises are held in the Hall of the University on every week day except Saturday, at 9 o'clock a. m. All students are expected to attend these services.

### THE LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m.

### UNIVERSITY LECTURES.

Students of the College are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

### DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held annually in the Hall of the University on the day before Washington's Birthday. The Davis Prizes are offered under the following conditions:



The competition is restricted to members of the Senior Class pursuing regular courses of study. Two prizes of equal value are offered—one to young men presenting original orations, and one to young women presenting original essays. Students wishing to enter the competition should report to the Professor of English not later than January 10, and submit their orations or essays not later than February 1. The prizes are awarded by a committee consisting of three members—one selected by the Faculty of the College, and one by each of the two classes of contestants.

### LITERARY SOCIETY.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

### THE ROMAN CLUB.

Professor Carroll has organized his graduate and advanced students into a "Roman Club" for the study of the Topography and Monuments of Rome, Roman Life and Art, and kindred themes. The Club meets once a month for the treatment of assigned topics, discussion of papers, and reports on Latin periodicals. During the present session the following themes have been subjects of study: Greek Temples in Italy and Sicily, the Roman Forum, Pompeii—its art and its monuments, and Roman Festivals and Amusements.

### GENERAL REGULATIONS.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered to parents or guardians at the end of each term.

The schedule of recitations is arranged to meet the require-

ments of the curriculum, and no choice of studies that involves conflicts in recitation periods will be permitted.

Junior and Senior students who desire to elect work in Astronomy, Botany, Geology and Mineralogy, or Zoölogy may avail themselves of the courses offered by the Corcoran Scientific School in those departments.

Electives in the Junior and Senior years to be credited for a degree must be chosen from Junior or Senior subjects.

No student who is a candidate for a degree may, without special permission of the Faculty, take more than six hours in one scholastic year in any one department.

No student is permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

### EXPENSES.

Admission fee (paid but once, on entrance).....	\$10 00
Tuition for the year in three or more departments.....	100 00
Tuition for the year in two departments.....	70 00
Tuition for the year in one department.....	50 00
Materials for laboratory courses in Chemistry, each course.....	10 00
Final Diploma Fee.....	10 00

These charges cover all expenses except those incurred through breakage or damage of apparatus, tools, instruments, furniture, or buildings.

Bills are payable semi-annually, in advance.

Students proposing to withdraw from the College will inform the Registrar to that effect. In the absence of such notification, no claims for exemption from fees will be allowed.

### SCHOLARSHIPS.

The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools who attains the highest average in the May entrance examinations. This scholarship continues

throughout the College course, and students on this foundation pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars.

The University offers also six scholarships, each running for four years, to be awarded annually to members of the graduating classes of the High Schools of Washington. The scholarships will be divided among the several High Schools in proportion to the number of students in attendance upon each; three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the College course leading to the degree of A. B., or the degree of B. S., as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars; and they will be expected to pursue a regular course, classical or scientific, leading to a degree.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. (For conditions under which these scholarships are assigned, see page 93 of this Catalogue.) The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

### ROOMS AND BOARD.

Desirable rooms, convenient to the University buildings, are obtainable at prices ranging from \$5 to \$15 per month, and good board is offered at from \$15 to \$20 per month. A list of eligible boarding-houses will, upon request, be furnished by the Registrar of the University.

For further information concerning the Columbian College, application may be made to the Registrar of the University.

## STUDENTS.

*Candidates for Degrees.*

Name.	State.	Address.
Alden, L. Russell.. . . . .	D. C....	809 L Street.
Ames, Gladys.....	Mass....	21st and R Streets.
Ashford, Horace Frost.....	D. C....	1763 P Street.
Ashford, Mahlon.....	D. C....	1763 P Street.
Beard, Edward Abbott.....	Md....	1305 N Street.
Bliss, George R.....	D. C....	1923 15th Street.
Brackett, F. Ely.....	D. C....	1310 R. I. Avenue.
Bradshaw, May Paul.....	D. C....	901 C Street, N. E.
Bryson, Herbert James.....	Pa.....	714 12th Street, N. E.
Buck, Katherine Lincoln.....	Mass....	1535 T Street.
Chase, George G .....	Kans....	1201 Whitney Ave.
Clark, Bertha Winifred.....	N. Y....	Brookland, D. C.
Coburn, Harry C., Jr.. . . . .	D. C....	2111 G Street.
Crawford, Angus McDonald....	Va.....	S. E. cor. 21st & O Sts.
Domer, Harry Tennyson.....	D. C....	738 11th Street.
Dunwoody, Halsey.. . . . .	D. C....	1522 31st Street.
Evans, Lola May.....	D. C....	2227 13th Street.
Fleming, Thomas, Jr.....	Va. ....	1763 Madison Street.
Flint, Weston Brown.....	D. C....	1213 K Street.
Ford, John.....	Md....	312 2d Street, S. E.
Ford, Mary Elizabeth.....	D. C....	312 2d Street, S. E.
Franzoni, Cecilia .....	D. C....	605 I Street.
Frisby, Florence Elizabeth.....	D. C....	1607 31st Street.
Fuller, Charles F.....	D. C....	612 L Street, N. E.
Fuller, Hubert Bruce... . . . .	Conn....	1615 Florida Avenue.
Green, G. Emery.....	Mass....	1123 17th Street.
Hance, Eleanor Wilson.....	Va.....	Cherrydale, Va.
Haws, Samuel Nathaniel.....	Tenn....	813 12th Street, N. W.
Hobgood, Mary Lucretia... . . . .	Ia.....	1946 2d Street.
Hord, Rev. Arnold Harris ....	Pa.....	Holmesburg, Pa.
Hoskins, Etta Louise.....	Mich....	301 C Street, S. E.
Johnson, Alward L.....	D. C....	1403 31st Street.
Keller, Charles Byron.....	N. Y....	1122 G Street, S. E.
Knight, Evelyn Estelle.....	D. C. ..	1106 Md. Ave., S. W.
Leach, Boynton McConnel.....	D. C....	1306 I Street.

Name.	State.	Address.
Lee, Helen . . . . .	Me. . . . .	The Westminster.
Lindsey, Melville Wilmer. . . . .	Va. . . . .	Alexandria, Va.
Lynch, Sara P. . . . .	D. C. . . . .	Brookland, D. C.
Main, Charles W. . . . .	Md. . . . .	1617 17th Street.
Matson, John W. . . . .	Md. . . . .	Berwyn, Md.
Maynard, Colton. . . . .	D. C. . . . .	1407 15th Street.
McGroarty, Lucina Frances. . . . .	Ala. . . . .	123 5th Street, N. E.
Merritt, Ella A. . . . .	Minn. . . . .	159 Heckman St., S. E.
Parkinson, Elsie Elizabeth . . . . .	Mich. . . . .	806 9th Street, N. E.
Parkman, Mrs. Josephine Bettes . . . . .	Mass. . . . .	2519 Pa. Avenue.
Peck, Paul Noble. . . . .	D. C. . . . .	1102 P Street.
Peterson, Norman E. . . . .	Minn. . . . .	Laurel, Md.
Phelps, Mary W. . . . .	D. C. . . . .	222 A Street, S. E.
Randolph, Frances Howell. . . . .	D. C. . . . .	1229 Princeton St.
Reinke, Lottie. . . . .	Tex. . . . .	1719 13th Street.
Robinette, Rosalie Agnes. . . . .	Pa. . . . .	301 Md. Ave., N. E.
Robinson, Nathaniel E., Jr. . . . .	D. C. . . . .	Brightwood, D. C.
Sanders, Frances . . . . .	D. C. . . . .	629 S Street.
Shallenberger, Josephine P. . . . .	Pa. . . . .	906 East Capitol St.
Smith, Flora Warren. . . . .	Minn. . . . .	Kensington, Md.
Solyom, Herbert Louis. . . . .	Md. . . . .	Tennallytown, D. C.
Sperry, Paul. . . . .	Ohio . . . . .	321 Del. Ave., N. E.
Sterrett, Douglas B. . . . .	D. C. . . . .	Springland, D. C.
Sterrett, William Dent. . . . .	D. C. . . . .	Springland, D. C.
Tasker, Arthur N. . . . .	D. C. . . . .	122 Md. Ave., N. E.
Thönssen, Pearl Edna. . . . .	Tex. . . . .	1533 5th Street.
Tufts, Clarissa Brooks. . . . .	Kans. . . . .	132 D Street, N. E.
Turner, M. Elsie . . . . .	D. C. . . . .	414 B Street, N. E.
Whitney, Carl Everett. . . . .	N. Y. . . . .	736 3d Street.
Wiehle, Alvin Louis Virgil. . . . .	Va. . . . .	1621 Conn. Avenue.

*Special Students.*

Albrecht, William Frederick. . . . .	Ind. . . . .	1115 9th Street.
Biscoe, Mattie Gresham. . . . .	Ark. . . . .	In attendance, 1898-'99.
Botkin, Alice Sinclair. . . . .	Mont. . . . .	1623 H Street.
Baylor, Maria. . . . .	Va. . . . .	930 K Street.
Cummings, Lucy W. . . . .	D. C. . . . .	Howard University.
Day, Frank Leighton. . . . .	Va. . . . .	1302 30th Street.

Name.	State.	Address.
Dowe, George M .....	D. C....	1742 Riggs Place.
Fukuda, Tatsugoro .....	Japan...	617 H Street.
Gray, Edith Cornelia .....	D. C....	923 I Street.
Heilprin, Frances .....	D. C....	926 B Street, S. W.
Henderson, John Thompson...	Tenn...	821 M Street.
Howell, R. S. ....	Iowa ...	6th and Pa. Avenue.
Hunt, Julia H.....	D. C....	2115 N Street.
Kodera, Kenkichi.....	Japan...	617 H Street.
Miller, Ella Wood.....	Mo.....	1719 13th Street.
Neiley, Laura Maud.....	N. S....	2115 Bancroft Place.
Olmstead, Myrtle.....	D. C....	2148 Pa. Avenue.
Pearson, Perry S., A. B.....	Ga.....	1112 10th Street.
Pennywitt, Eunice V.....	Va.....	Glencarlyn, Va.
Ray, Eleanor M.....	Md....	Forest Glen, Md.
Rhoton, Alvis Lemuel.....	Ky.....	218 Ky. Avenue, S. E.
Shirasu, Chohei.....	Japan...	Japanese Legation.
Underwood, Norman.....	D. C....	1407 10th Street.
Ward, Rev. A. Norman, A. B..	Md....	23 8th Street, S. E.
Wilkins, John Howard.....	D. C....	937 S Street.
Wiren, Aurora.. ....	Minn...	921 F Street, N. E.
Wiren, Frances.....	Minn...	921 F Street, N. E.

Total..... 91

# THE CORCORAN SCIENTIFIC SCHOOL

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## THE FACULTY.

\* REV. BENAIHAH L. WHITMAN, D. D., LL. D.  
*President.*

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President, pro tempore.*

HOWARD L. HODGKINS, PH. D.,  
*Dean,*  
Professor of Mathematics.

CHARLES E. MUNROE, PH. D.,  
Professor of Chemistry.

REV. SAMUEL M. SHUTE, D. D.,  
Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,  
Professor of Geodesy.

CLEVELAND ABBE, A. M., LL. D.,  
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,  
Professor of German.

HARRY KING, LL. B.,  
Emeritus Professor of Drawing.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology and Mineralogy.

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\* Resigned March 31, 1900.

## THE COLUMBIAN UNIVERSITY.

JOSIAH PIERCE, JR., A. M.,  
Professor of Applied Geometry.

ANDREW F. CRAVEN, PH. D.,  
Professor of Politics and Economics.

LOUIS AMATEIS,  
Professor of Fine Arts as Applied to Architecture.

EDWARD FARQUHAR, PH. D.,  
Professor of History.

FRANK A. WOLFF, PH. D.,  
Professor of Physics and Electrical Engineering.

F. LAMSON-SCRIBNER, B. S.,  
Professor of Botany.

J. C. HORNBLOWER,  
Professor of Architecture.

C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

MARATHON M. RAMSEY, A. M.,  
Professor of Romance Languages.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English, and Secretary of the Faculty.

AINSWORTH R. SPOFFORD, LL. D.,  
Professor of Library Science.

HERBERT L. RICE, M. S.,  
Professor of Astronomy.

GUSTAV AYRES, M. E.,  
Professor of Mechanical Engineering.



REV. BENJAMIN ALFRED DUMM, A. M.,

Professor of Philosophy.

THEODORE F. LAIST, B. S.,

Associate Professor of Architecture.

MITCHELL CARROLL, PH. D.,

Professor of Latin.

HENRY A. PRESSEY, B. S.,

Professor of Civil Engineering and Acting Professor of Applied  
Mathematics.

ERNEST L. THURSTON, C. E.,

Professor of Drawing.

WILBUR F. DALES, PH. D.,

Assistant Professor of Latin and Greek.

W. EDWIN PRIEST,

Assistant Professor of History.

PETER FIREMAN, PH. D.,

Assistant Professor of Organic Chemistry.

THOMAS J. D. FULLER, B. S.,

Assistant Professor of Architecture.

HENDERSON PRESNELL,

Assistant Professor of Library Science.

WILLIAM P. CUTTER, B. S.,

Assistant Professor of Library Science.

THOMAS A. WILLIAMS, A. M.,

Assistant Professor of Botany.

EDWARD A. MUIR, B. S.,

Assistant Professor of Drawing.

**THE COLUMBIAN UNIVERSITY.****INSTRUCTORS AND ASSISTANTS.**

**EMIL H. MEYER,**  
Instructor in Fine Arts.

**T. W. STANTON, PH. D.,**  
Instructor in Paleontology and Stratigraphical Geology.

**HARRY T. NEWCOMB, LL. M.,**  
Instructor in Transportation.

**H. GRANT HODGKINS, A. B.,**  
Instructor in Mathematics.

**CHARLES E. McNABB, LL. M.,**  
Instructor in Business Law.

**RAYMOND SAYER,**  
Instructor of the Perspective Class.

**REED P. CLARK, A. B.,**  
Instructor in French.

**PAUL BARTSCH, B. S.,**  
Instructor in Zoölogy.

**CHARLES S. HYDE, A. M.,**  
Instructor in German.

**R. E. BAKENHUS, B. S.,**  
Instructor in Civil Engineering.

**FAIRFAX BAYARD, C. E.,**  
Instructor in Applied Mathematics.

**FRED F. REISNER, E. E.,**  
Assistant in the Physical Laboratory.

**JULES MAILLET,**  
Assistant in French.

WINTER F. BOWEN,  
Assistant in Assaying.

CHRISTIAN G. STORM, M. S.,  
Assistant in Chemistry.

N. MONROE HOPKINS, B. S.,  
Assistant in Chemistry.

MAYVILLE W. TWITCHELL, B. S.,  
Assistant in Geology.

EUGENE BRADBURY,  
Assistant in Architectural Drawing.

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LECTURERS.

OTIS T. MASON, PH. D., LL. D.,  
Lecturer on Anthropology.

THOMAS M. CHATARD, PH. D.,  
Lecturer on Chemical Engineering.

CARROLL D. WRIGHT, LL. D.,  
Lecturer on Social Statistics.

CABELL WHITEHEAD, PH. D.,  
Lecturer on Metallurgy.

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STANDING COMMITTEES OF THE FACULTY.

*Committee on Advanced Standing.*

The DEAN, the SECRETARY, and Professor MERRILL.

*Committee on Library.*

Professors FARQUHAR, CUTTER, and PRESNELL.

*Committee on Examination Schedule.*

Professors RAMSEY, WILBUR, and PRESSEY.

The School of Science is called the Corcoran Scientific School in grateful recollection of the many benefactions of W. W. Corcoran to the University.

The exercises of the School begin Wednesday, September 26, 1900, and are held in University Hall (southeast corner of Fifteenth and H streets, N. W.), which is constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the full courses of study leading to the degree of Bachelor of Science, as described below, or they may take special courses in any of the departments.

Candidates for admission to the Freshman Class should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free-hand and Mechanical Drawing.

The following courses of study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements :

## COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

### *Freshman Year.\**

(Common to all Courses.)

†(3) Chemistry, 1. General Chemistry.	(1) Fine Arts, 1. Free-hand Drawing.
(2) Drawing, 1. Mechanical and Geometrical Drawing.	(2) Romance Languages, 1. French.
(3) English, 1, 4. Rhetoric; English Literature.	(5) Mathematics, 1, 2. Algebra; Geometry.

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\* Students in Course X will take Course 2 in Fine Arts (Architectural Drawing) in addition to the above.

† The numbers in parentheses give the number of hours or periods per week. The numbers following the subjects refer to the special topics in the various Departments of the Corcoran Scientific School.

COURSE I—GENERAL.

*Sophomore Year.*

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| (2) German, 1.                      | ( $\frac{3}{2}$ ) Mineralogy, 1. |
| (3) Mathematics, 3, 4.              | Descriptive Mineralogy.          |
| Trigonometry; Analytic<br>Geometry. | (3) Physics, 1.                  |
|                                     | General Physics.                 |
| Elective, eight hours a week.       |                                  |

*Junior Year.*

- |                                     |                |
|-------------------------------------|----------------|
| (2) Geology, 1.                     | (2) German, 2. |
| Systematic Geology.                 |                |
| Elective, thirteen hours a<br>week. |                |

*Senior Year.*

- |                                     |                    |
|-------------------------------------|--------------------|
| (2) Astronomy, 1.                   | (2) Philosophy, 1. |
| General Astronomy.                  | Logic.             |
| Elective, thirteen hours a<br>week. |                    |

COURSE II—IN CIVIL ENGINEERING.

*Sophomore Year.*

- |  |                                     |
|--|-------------------------------------|
| (6) Applied Mathematics, 1, 2.                 | (2) German, 1.                      |
| Descriptive Geometry;<br>Elementary Mechanics. | (3) Mathematics, 3, 4.              |
|  | Trigonometry; Analytic<br>Geometry. |
| (6) Engineering, 1, 6.                         | ( $\frac{3}{2}$ ) Mineralogy, 1.    |
| Surveying and Construc-<br>tion.               | Descriptive Mineralogy.             |
| (1) Fine Arts, 2.                              | (3) Physics, 1.                     |
| Architectural Drawing.                         | General Physics.                    |

*Junior Year.*

- |  |   |
|--|---|
| (7) Applied Mathematics, 3,<br>4, 6.         | (2) German, 2.                                |
| Mechanics; Hydraulics;<br>Graphical Statics. | (8) Engineering, 3, 5.                        |
|  | Railroad Engineering<br>Sanitary Engineering. |
| (2) Geology, 1.                              | (2) Mathematics, 5.                           |
| Systematic Geology.                          | Calculus.                                     |

*Senior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 5.<br>Strength of Materials.                                  | (1) Geodesy (1 term).<br>(1) Mathematics, 7.<br>Least Squares. |
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 1.<br>Logic.                                   |
| (1) Chemistry, 14.<br>Metallurgy of Iron.  |  |
| (10) Engineering, 2, 4, 7.<br>Hydraulic Engineering;<br>Masonry; Framed<br>Structures. |  |

## COURSE III—IN ELECTRICAL ENGINEERING.

*Sophomore Year.*

- |   |  |
|---|--|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (4) Mechanical Engineering,<br>1, 2.<br>Machine Design; Kine-<br>matics. |
| (2) Drawing, 3.<br>Machine Drawing.                           | (2) Mineralogy, 1.<br>Descriptive Mineralogy.                            |
| (2) German, 1.  | (6) Physics, 1, 9.<br>General Physics; Phys-<br>ical Laboratory.         |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |  |

*Junior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) Mechanical Engineering, 1.<br>Machine Design.      |
| (2) Geology, 1.<br>Systematic Geology.               | (9) Physics, 2, 3, 10, 14.<br>Electricity; Laboratory. |
| (2) German, 2.                                       |  |
| (2) Mathematics, 5.<br>Calculus.                     |  |

*Senior Year.*

- |   |   |
|---|---|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials. | (2) Philosophy, 1.<br>Logic.  |
| (2) Astronomy, 1.<br>General Astronomy.                                 | (11) Physics, 4, 5, 6, 12, 14.<br>Theory and Application of<br>Electricity; Advanced<br>Laboratory; Inspection. |
| (1) Chemistry, 14.<br>Metallurgy of Iron.                               |   |
| (2) Mechanical Engineering, 7.<br>Power Plants.                         |   |

COURSE IV—IN MECHANICAL ENGINEERING.

*Sophomore Year.*

- |  |   |
|--|---|
| (4) Applied Mathematics, 1, 2.<br>Descriptive Geometry;<br>Elementary Mechanics. | (6) Mechanical Engineering,<br>1, 2, 3.<br>Machine Design; Kine-<br>matics. |
| (½) Chemistry, 3.<br>Laboratory (first term).                                    | (½) Mineralogy, 1.<br>Descriptive.  |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.   |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry.                    |   |

*Junior Year.*

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|--|--|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (13) Mechanical Engineering, 1,<br>2, 4, 5, 6, 7.<br>Machine Design; Kine-<br>matics; Thermodynam-<br>ics; Mechanical Tech-<br>nology; Mechanics of<br>Machinery; Power<br>Plants. |
| (2) Geology, 1.<br>Systematic Geology.               |  |
| (2) German, 2.                                       |  |
| (2) Mathematics, 5.<br>Calculus.                     |  |

*Senior Year.*

- |   |   |
|---|---|
| (2) Astronomy, 1.<br>General Astronomy.   | (13) Mechanical Engineering, 8,<br>9, 10.<br>Machine Design; Machin-<br>ery of Transmission;<br>Measurement of Power. |
| (1) Chemistry, 14.<br>Metallurgy of Iron. | (2) Philosophy, 1.<br>Logic.  |

COURSE V—IN CHEMISTRY (A).

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (1) Drawing, 2.<br>Machine Drawing.           |
| (5) Chemistry, 2.<br>Laboratory; General<br>Principles.       | (½) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.           |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |   |  |
|---|--|
| (15) Chemistry, 4.<br>Qualitative Analysis. | (2) Geology, 1.<br>Systematic Geology.<br>(2) German, 2. |
|---|--|

*Senior Year.*

- |  |   |
|--|---|
| (16) Chemistry, 5, 7, 9, 14.<br>Quantitative Analysis;<br>Assaying; Organic.<br>Chemistry; Metallurgy<br>of Steel. | (2) Astronomy, 1.<br>General Astronomy.<br>(2) Philosophy, 1.<br>Logic. |
|--|---|

## COURSE VI—IN CHEMISTRY (B).

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.    | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (5) Chemistry, 2.<br>Laboratory; General<br>Principles. | (3) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |  |
|---|--|
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) Geology, 1.<br>Systematic Geology.               |
| (2) Mathematics, 5.<br>Calculus.            | (2) German, 2.<br>(3) Physics, 2, 3.<br>Electricity. |

*Senior Year.*

- |   |   |
|---|---|
| (2) Astronomy, 1.<br>General Astronomy.   | (2) Mathematics, 6, 7.<br>Differentials and Least<br>Squares. |
| (13) Chemistry, 5, 9, 14.<br>Quantitative Analysis;<br>Organic Chemistry;<br>Metallurgy of Steel. | (2) Philosophy, 1.<br>Logic.                                  |



## COURSE VII—IN MATHEMATICS.

*Sophomore Year.*

- |  |   |
|--|---|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry. | (2) German, 1.  |
| (2) Civil Engineering, 1.<br>Surveying.              | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Drawing, 4.<br>Topographic Drawing.              | (2) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) Romance Languages, 2.<br>French.                 | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) History, 1.<br>American.  |
| (2) Romance Languages, 3.<br>French.                 | (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three Di-<br>mensions. |
| (2) Geology, 1.<br>Systematic Geology.               | (3) Physics, 2, 3.<br>Electricity.  |
| (2) German, 2.                                       |   |

*Senior Year.*

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|--|---|
| (3) Applied Mathematics, 4, 5.   | (2) Philosophy, 1.<br>Logic.  |
| (4) Astronomy, 1, 2.<br>General and Mathemat-<br>ical Astronomy.   | (3) Physics, 4, 7.<br>Mathematical Theory of<br>Electricity; Mathemat-<br>ical Physics. |
| (1) Geodesy, 1.  |   |
| (2) German, 3.   |   |
| (4) Mathematics, 6, 7, 11, 12.<br>Differential Equations;<br>Least Squares; Theory<br>of Equations; History<br>of Mathematics. |   |

## COURSE VIII—IN METEOROLOGY.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (2) Meteorology, 1.<br>Observational.                       |
| (5) Chemistry, 2 or 3.<br>Laboratory.                         | ( $\frac{2}{3}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                         |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |  |                                     |
|--|-------------------------------------|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) German, 2.                      |
| (2) Botany, 1.<br>Structural and System-<br>atic.    | (2) Mathematics, 5.<br>Calculus.    |
| (2) Geology, 1.<br>Systematic Geology.               | (2) Meteorology, 2.<br>Climatology. |
|  | (3) Physics, 9.<br>Laboratory.      |

*Senior Year.*

- |  |   |
|--|---|
| (2) Applied Mathematics, 4.<br>Hydraulics. | (2) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |
| (2) Astronomy, 1.<br>General Astronomy.    | (2) Meteorology, 3.<br>Special Topics.                              |
| (1) Geodesy.<br>Projections.               | (2) Philosophy, 1.<br>Logic.  |
|  | (6) Physics, 11.<br>Laboratory.                                     |

## COURSE IX—IN GEOLOGY AND MINERALOGY.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Botany 1.<br>Structural and Systematic. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (4) Civil Engineering, 1.<br>Surveying.     | (3) Mineralogy, 1, 2.<br>Descriptive and Determ-<br>inative.  |
| (2) German.                                 | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |  |
|---|--|
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) German.  |
| (2) Geology, 1.<br>Systematic Geology.      | (2) Mineralogy.<br>Determinative and Crystallographic. |
|   | (2) Zoölogy, 1.  |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.     | (2) Philosophy, 1.<br>Logic.   |
| (2) Drawing, 2.<br>Topographical Drawing.   | (2) Paleobotany.<br>(2) Paleozoölogy.  |
| (2) Economics, 6.<br>Political Economy.     | (2) Special Lectures on Rock-<br>weathering and Sedimentation, Field Methods, etc. |
| (2) Geology, 2.<br>Applied Geology.         |  |
| (2) Meteorology, 2.<br>General Climatology. |  |

COURSE X—IN ARCHITECTURE.

*Sophomore Year.*

- |   |  |
|---|--|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry.  | (2) German, 1.<br>(3) Mathematics, 3, 4.<br>Trigonometry; Analytic Geometry. |
| (14) Architecture, 1, 4, 5, 10.<br>History of Architecture;<br>Architectural Drawing<br>and Design; Building<br>Construction. | (1) Mineralogy, 1.<br>Descriptive Mineralogy.                                |
| (6) Fine Arts, 3.<br>Drawing, etc.  | (3)* Physics, 1.<br>General Physics.   |

*Junior Year.*

- |   |  |
|---|--|
| (4) Applied Mathematics, 3, 6.<br>Mechanics; Graphic Statistics (one term).   | (6) Fine Arts, 4.<br>Drawing, etc.   |
| (16) Architecture, 2, 6, 11, 12.<br>History of Architecture;<br>Architectural Design;<br>Building Materials;<br>Specifications. | (2) Geology, 1.<br>Systematic Geology.<br>(2) German, 2.<br>(2) Mathematics, 5.<br>Calculus. |

*Senior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 5.<br>Strength of Materials.  | (2) Economics, 1.<br>Business Law.                                 |
| (15) Architecture, 3, 7, 8, 9, 13.<br>History of Architecture;<br>Architectural Design;<br>Building Materials;<br>Sanitary Science;<br>Thesis. | (6) Fine Arts, 5.<br>Drawing, etc.<br>(2) Philosophy, 1.<br>Logic. |
| (2) Astronomy, 1.<br>General Astronomy.  |  |

## COURSE XI—IN ECONOMICS.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Economics, 1.<br>Business Law.                            | ( $\frac{1}{2}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) Geography, 1.<br>Physical.                                | (3) Physics, 1.<br>General Physics.                         |
| (2) German, 1.  | (2) Romance Languages, 2.<br>French.                        |
| (2) History, 1.<br>American.                                  |   |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |  |   |
|--|---|
| (6) Economics, 2, 3, 5.<br>Finance; Politics and<br>Administration; Eco-<br>nomic Development. | (2) German, 2.<br>(2) History, 2.<br>Ancient History. |
| (2) Geography, 2.<br>Economic.   | (2) Philosophy, 2.<br>Psychology.                     |
| (2) Geology, 1.<br>Systematic Geology.   | (2) Zoölogy, 1.                                       |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.                                   | (2) German, 4.<br>(4) History, 3, 5.<br>Mediæval; English. |
| (2) Botany, 1.<br>Structural and System-<br>atic.                         | (2) Philosophy, 1.<br>Logic.                               |
| (6) Economics, 4, 6, 7.<br>Statistics; Political Econ-<br>omy; Sociology. |  |

## COURSE XII—IN LANGUAGE AND LITERATURE.

*Sophomore Year.*

- |   |  |
|---|--|
| (2) English, 2.<br>English Prose.                             | (2) Mineralogy, 1.<br>Descriptive Mineralogy.    |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.              |
| (2) Greek, 3; or Latin, 4.                                    | (4) Romance Languages, 2, 7.<br>French; Spanish. |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |  |

*Junior Year.*

- |  |  |
|--|--|
| (3) English, 6, 7, and 3 or 9.<br>English Novel; Ameri-<br>can Literature; and En-<br>glish Composition or Old<br>English. | (2) Greek, 4; or Latin, 5.<br>(2) History, 1.<br>American.<br>(6) Romance Languages, 3, 8,<br>10.<br>French; Spanish; Italian. |
| (2) Geology, 1.<br>Systematic Geology.   |  |
| (2) German, 2.   |  |

*Senior Year.*

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Greek, 5; or Romance Lan-<br>guages, 11. |
| (2) English, 8.<br>Shakespeare.          | (2) Latin, 6; or Geography, 1.               |
| (2) German, 3.                           | (2) Philosophy, 1.<br>Logic.                 |
| (4) History, 2, 3.<br>Ancient; Mediæval. | (2) Romance Languages, 4.<br>French.         |

## COURSE XIII—IN LIBRARY SCIENCE.

*Sophomore Year.*

- |  |   |
|--|---|
| (3) English, 2, 3.<br>English Prose; English<br>Composition.   | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) French, 2.   | ( $\frac{3}{2}$ ) Mineralogy, 1.                              |
| (2) German, 1.   | Descriptive.  |
| (7) Library Science, 1, 2, 3, 4, 5.<br>Cataloguing; Accession;<br>Classification; Admin-<br>istration. | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |  |  |
|--|--|
| (2) English, 6, 7.<br>English Novel; Ameri-<br>can Literature. | (5) Library Science, 6, 7, 8, 9.<br>Administration; Ad-<br>vanced Cataloguing. |
| (2) French, 3.   | (2) Romance Languages, 7.  |
| (2) German, 2.   | Spanish.   |
| (2) Geology, 1.<br>Systematic Geology.                         | (2) Zoölogy, 1; or History.  |

*Senior Year.*

- |  |                              |
|--|------------------------------|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 1.<br>Logic. |
| (2) Botany, 1; or History.   | (2) Romance Languages, 10.   |
| (5) Chemistry, 2 or 3; or<br>Physics, 9.<br>Laboratory.  | Italian.                     |
| (6) Library Science, 10, 11, 12,<br>13, 14.<br>Bibliography; History<br>of Libraries; Refer-<br>ence Work; Thesis. |                              |

## COURSE XIV—IN PHYSICS AND MATHEMATICS.

*Sophomore Year.*

- |  |  |
|--|--|
| (3) Applied Mathematics, 1.<br>Descriptive Geometry.           | (4) Mineralogy, 1.<br>Descriptive Mineralogy.            |
| (1) Chemistry, 3 (first term).<br>Qualitative Analysis.        | (3) Physics, 1.<br>General Physics.                      |
| (2) German, 1.   | (1) Physics, 9 (second term).                            |
| (3) Mathematics, 3, 4.<br>Trigonometry ; Analytic<br>Geometry. | Laboratory Work.<br>(2) Romance Languages, 2.<br>French. |

*Junior Year.*

- |   |  |
|---|--|
| (2) Applied Mathematics, 3.<br>Mechanics.   | (9) Physics, 2, 7, 11.<br>Mathematical Theory of<br>Electricity ; Mathemat-<br>ical Physics ; Advanced<br>Laboratory Work. |
| (2) Geology, 1.<br>Systematic Geology.  |  |
| (2) German, 2.  |  |
| (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three<br>Dimensions. |  |

*Senior Year.*

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.                              | (11) Physics, 4, 7, 8, 13.<br>Advanced Mathematical<br>Theory of Electricity ;<br>Mathematical Physics ;<br>Physical Chemistry ;<br>Advanced Laboratory<br>Work. |
| (2) German, 3.   |  |
| (3) Mathematics, 6, 7.<br>Differential Equations ;<br>Least Squares. |  |
| (2) Philosophy, 1.<br>Logic.   |  |

## COURSE XIII—IN LIBRARY SCIENCE.

*Sophomore Year.*

- |  |   |
|--|---|
| (3) English, 2, 3.<br>English Prose; English<br>Composition.   | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) French, 2.   | ( $\frac{3}{4}$ ) Mineralogy, 1.<br>Descriptive.              |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.                           |
| (7) Library Science, 1, 2, 3, 4, 5.<br>Cataloguing; Accession;<br>Classification; Admin-<br>istration. |   |

*Junior Year.*

- |  |  |
|--|--|
| (2) English, 6, 7.<br>English Novel; Ameri-<br>can Literature. | (5) Library Science, 6, 7, 8, 9.<br>Administration; Ad-<br>vanced Cataloguing. |
| (2) French, 3.   | (2) Romance Languages, 7.<br>Spanish.  |
| (2) German, 2.   | (2) Zoölogy, 1; or History.  |
| (2) Geology, 1.<br>Systematic Geology.                         |  |

*Senior Year.*

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 1.<br>Logic.           |
| (2) Botany, 1; or History.   | (2) Romance Languages, 10.<br>Italian. |
| (5) Chemistry, 2 or 3; or<br>Physics, 9.<br>Laboratory.  |  |
| (6) Library Science, 10, 11, 12,<br>13, 14.<br>Bibliography; History<br>of Libraries; Refer-<br>ence Work; Thesis. |  |



## COURSE XIV—IN PHYSICS AND MATHEMATICS.

*Sophomore Year.*

- |   |   |
|---|---|
| (3) Applied Mathematics, 1.<br>Descriptive Geometry.                  | ( $\frac{7}{8}$ ) Mineralogy, 1.<br>Descriptive Mineralogy.     |
| ( $\frac{1}{2}$ ) Chemistry, 3 (first term).<br>Qualitative Analysis. | (3) Physics, 1.<br>General Physics.                             |
| (2) German, 1.  | ( $\frac{1}{2}$ ) Physics, 9 (second term).<br>Laboratory Work. |
| (3) Mathematics, 3, 4.<br>Trigonometry ; Analytic<br>Geometry.        | (2) Romance Languages, 2.<br>French.                            |

*Junior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 3.<br>Mechanics.  | (9) Physics, 2, 7, 11.<br>Mathematical Theory of<br>Electricity ; Mathemat-<br>ical Physics ; Advanced<br>Laboratory Work. |
| (2) Geology, 1.<br>Systematic Geology.   |  |
| (2) German, 2.   |  |
| (4) Mathematics, 5, 8, 9, 10.<br>Calculus ; Determinants ;<br>Quaternions ; Analytic<br>Geometry of Three<br>Dimensions. |  |

*Senior Year.*

- |  |  |
|--|--|
| (2) Astronomy, 1.<br>General Astronomy.                              | (11) Physics, 4, 7, 8, 13.<br>Advanced Mathematical<br>Theory of Electricity ;<br>Mathematical Physics ;<br>Physical Chemistry ;<br>Advanced Laboratory<br>Work. |
| (2) German, 3.   |  |
| (3) Mathematics, 6, 7.<br>Differential Equations ;<br>Least Squares. |  |
| (2) Philosophy, 1.<br>Logic.   |  |

## PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
	Politics, 4.15-5.15. Ancient History, 4.30-5.30. Modern History, 4.15-6.00.	Statistics, 4.15-5.15.	Sociology, 4.15-5.15.
6 to 7	Analytic Geometry. Geology. Machinery of Transmission. Masonry. Rhetoric. Technical Elec- tricity. Trigonometry.	American History. Architectural Draw- ing. Botany III. Chemical Laboratory. Electrical Laboratory. Elementary Elec- tricity. Elementary Mechan- ics. English Composition. French II. French V. Kinematics. Logic. Organic Chemistry. Physical Laboratory. Theory of Equations. Zoölogy.	Biblical Literature. Descriptive Geom- etry. Elementary Elec- tricity. English Literature. German III. Latin IV. Spanish I. Water Supply.
7 to 8	American Litera- ture. Building Construc- tion. Business Law. Calculus. Chemistry. English Novel. Greek I. Library Science II. Machinery of Transmission. Mineralogy. Spanish III. Technical Elec- tricity.	Architectural Draw- ing. Astronomy. Botany I. Chemical Laboratory. Differential Equa- tions. Economic Develop- ment. Electrical Laboratory. English Prose. French I. French VI. Library Science III and IX. Physical Laboratory. Organic Chemistry.	Chemistry. German II. Latin I. Machinery of Transmission. New Testament Greek. Physics. Spanish III. Strength of Mate- rials.

**RECITATIONS AND LECTURES, 1900-1901.**

THURSDAY.	FRIDAY.	SATURDAY.
Politics, 4.15-5.15. Mediæval History, 4.15-5.15.	Statistics, 4.15-5.15. Ancient History, 4.30-5.30. Mediæval History, 4.15-5.15.	Sociology, 4.15-5.15.
American History. Analytic Geometry.  Chemistry.  Elementary Electricity.  Hebrew.  Logic.  Trigonometry.  Zoölogy.	Analytic Geometry. Geology.  German III.  Rhetoric.  Theoretical Chemistry.  Trigonometry.	Electrical Laboratory. French II.  Latin IV.  Machine Drawing.  Mechanical Drawing.  Meteorology.  Topographical Drawing.
Astronomy.  Biblical Literature.  Botany I. Business Law.  Calculus.  Library Science XI.  Mechanical Drawing.  Physics.  Topographical Drawing.	Economic Development. Geometry.  Geometry (Plane). German II.  Greek II.  Hebrew.  Library Science I.  Measurement of Power.  Mineralogy. Organic Chemistry. Psychology.  Shakespeare. Spanish II. Strength of Materials.	Electrical Laboratory.  Freehand Drawing.  Machine Drawing. Physical Laboratory.

## PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
8 to 9	Algebra. Algebra (Preparatory). Greek II. Library Science X. Analytical Mechanics. Metallurgy. Old English. Physics. Spanish II.	Architectural Drawing. Building Construction. Chemical Laboratory. Electrical Laboratory. Geometry. Geometry (Plane). Greek III. Hydrographic Engineering. Library Science IV. Mechanical Technology. Physical Laboratory. Political Economy. Shakespeare. Steam Engine. Theoretical Chemistry.	Advanced Electricity. French III. German I. Latin I. Analytical Mechanics. Machinery of Transmission.
9 to 10	Advanced Electricity. Descriptive Geometry. French VI. Geometry (Plane). Latin I. Thermodynamics.	Algebra. Algebra (Preparatory). Chemical Laboratory. Electrical Laboratory. Finance. Mechanical Technology. Physical Laboratory. Psychology. Railroad Engineering. Steam Engine.	Building Construction. Greek I. Hydraulics. Machinery of Transmission. Measurement of Power.

The Laboratories and Drawing-rooms are open every evening.

Chemistry 2 and 3 (laboratory courses), Tuesday from 5 to 10 P. M.

The full course in Assaying occupies three evenings a week for three months.

**RECITATIONS AND LECTURES, 1900-1901.**

THURSDAY.	FRIDAY.	SATURDAY.
Advanced Electricity.	Algebra.	Electrical Laboratory.
Building Construction.	Algebra (Preparatory).	Freehand Drawing.
Botany III.	American Literature.	Machine Drawing.
Differential Equations.	English Novel.	Machine Design.
French I.	Ethics.	Physical Laboratory.
Hydrographic Engineering.	German I.	
Greek II.	Graphic Statics.	
Library Science XIII.	Library Science I.	
Library Science VII.	New Testament Greek.	
Library Science VIII.	Organic Chemistry.	
Machine Drawing.	Political Economy.	
Machine Design.	Spanish I.	
Surveying.	Tall Buildings.	
Steam Engine.	Thermodynamics.	
Elementary Mechanics.	Building Construction.	Electrical Laboratory.
French V.	English Prose.	Machine Drawing.
Latin V.	French III.	Machine Design.
Library Science XIII.	Finance.	Physical Laboratory.
Machine Drawing.	Graphic Statics.	
Railroad Engineering.	Latin I.	
Steam Engine.	Thermodynamics.	
Theory of Equations.		

**DEPARTMENTS OF INSTRUCTION.\*****ANTHROPOLOGY.****DR. MASON, Lecturer.****APPLIED GEOMETRY.****PROFESSOR PIERCE, Head of Department.**

Courses of lectures supplementing the regular courses in Drawing and Engineering will be given in this department.

**APPLIED MATHEMATICS.****ACTING PROFESSOR PRESSEY.****MR. BAYARD, Instructor.**

1. Descriptive Geometry, two hours; and Exercises, two hours.†
2. Elementary Mechanics, two hours.
3. Analytical and Applied Mechanics, two hours.
4. Hydraulics, one hour.
5. Strength of Materials and Theory of Elasticity, two hours.
6. Graphical Statics, two hours; and Exercises, two hours.
7. Stereotomy, one hour, and Exercises.

**ARCHITECTURE.****PROFESSOR HORNBLOWER, Head of Department.****ASSOCIATE PROFESSOR LAIST, in Charge of Department.****ASSISTANT PROFESSOR FULLER.****Architects Assisting the Corps of Instruction for the Year 1900-1901.****WALTER G. PETER.****EDWARD W. DONN, JR., B. S.****EDWARD A. CRANE.****FRANCIS B. WHEATON.****OSCAR J. VOGT, Instructor in Architectural Drawing.**

\*An elective course asked for by less than five students may not be given.

† Unless otherwise stated, hours per week throughout the year.

**Special Lecturers for the Year 1900-1901.**

**BERNARD R. GREEN, C. E.,**

*Superintendent of the Library of Congress,*

**The Planning and Construction of Libraries.**

**GRUNWALD AUS, C. E., M. A. S. C. E.,**

*Chief Engineer, Office of Supervising Architect of the Treasury,*

**Fireproof Building Construction.**

**FRANKLIN W. SMITH,**

**Pompeian Architecture.**

**JAMES C. PLANT,**

*Chief of Computing Division, Office of Supervising Architect of the Treasury,*

**Building Materials, Specifications, and Computing.**

**GEORGE RISK, C. E.,**

*Technical Examiner, U. S. Civil Service Commission,*

**Foundations.**

**G. O. TOTTEN, JR., A. M., Architect,**

**Theory of Architecture.**

**WM. D. WINDOM, Architect,**

**Wrought Iron Work.**

Awards in School Competitions will be made by juries selected by the Washington Chapter, American Institute of Architects, and the Washington Architectural Club.

1. History of Architecture. Egyptian, Assyrian, and Grecian. One hour.

2. History of Architecture. Grecian and Roman. One hour.

3. History of Architecture. Romanesque, Renaissance, and Gothic. One hour.

4 Architectural Drawing. A review of the orders, with details to a large scale; measured drawings of existing buildings; copies and enlargements of plans and working drawings. First term, Sophomore year.

4. The Wisdom Literature of the Hebrews—including a study of Proverbs, Job, Ecclesiastes, and Song of Songs. Two hours, second term.

5. History of the Hebrew People—studied in the light of modern excavation and research. Two hours.

6. Life and Times of Jesus, with study of the Apostolic Age. Two hours.

7. The Hebrew Language—grammar and reading in historical and prophetic books of the Old Testament. Two hours.

8. The New Testament Greek. Readings in the Gospels and the Epistles. Two hours.

9. The History of the Bible as a Book. Its transmission from early days to the present time; influence of English versions upon modern life and letters. One hour.

## BOTANY.

PROFESSOR LAMSON-SCRIBNER, Head of Department.

ASSISTANT PROFESSOR WILLIAMS.

### 1. Structural and Systematic Botany.

The year is devoted to general organography, morphology, and the systematic relationships of flowering plants and the higher cryptogams, with brief outline reviews of the remaining groups. *Field excursions* are given whenever practicable, and the student is expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. Special attention is given to the larger and more difficult families of flowering plants, such as the graminæ, compositæ, and leguminosæ. The student is also instructed in the proper manner of collecting and preparing plants for the herbarium and directed in beginning the preparation of a local herbarium. Two hours.

Text-books: Bastin's College Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants; Britton and Brown, Flora of the Northern United States and Canada.



## 2. Histological and Physiological Botany.

The year is devoted to lectures and laboratory work in histology and physiology. The cutting of sections and staining and mounting of botanical objects is described and illustrated, and the student is instructed in the use of the compound microscope in botanical research. The vegetable cell and the various tissues entering into the structure of the higher plants are studied in detail, and the principles governing the phenomena of plant physiology are illustrated by experiments in the laboratory. Two hours.

Reference books: Goodale's *Physiological Botany*; Bessey's *College Botany*; Westermaier-Schneider, *A Compendium of General Botany*; Zimmerman-Humphrey, *Botanical Microtechnique*; Vines, *Lectures on the Physiology of Plants*.

## 3. Cryptogamic Botany.

This course includes lectures, reading, and laboratory on the structure, morphology, physiology, and biology of the cryptogams. Representatives of the various groups are studied in the laboratory, and field excursions are given for the purpose of collecting and studying the cryptogamic flora of the region. Special attention is given to fleshy fungi, parasitic fungi, bacteria, and fresh-water algæ. The student is instructed in the best methods of collecting and preparing these plants for preservation in the herbarium or laboratory for study, and is required to make a small collection of the local flora. Two hours.

Reference books: Bennett and Murray, *Cryptogamic Botany*; Bessey, *College Botany*; Vines, *A Student's Text-book in Botany*; and various monographic works on special groups.

NOTE.—Courses 2 and 3 will be given on alternate years, and must be preceded by course 1.

4. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor, provided that students in sufficient number present themselves.

## CHEMISTRY.

PROFESSOR MUNROE, Head of Department.

DR. CHATARD, Lecturer on Chemical Engineering.

DR. WHITEHEAD, Lecturer on Metallurgy.

DR. FIREMAN, Assistant Professor of Organic Chemistry.

MR. BOWEN, Assistant in Assaying.

MR. STORM, Assistant in Chemistry.

MR. HOPKINS, Assistant in Chemistry.

1. General Chemistry, a series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. Laboratory Practice, a laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Five hours.

Text-book: Cooke's Laboratory Practice.

3. Preparation of and Study of the Properties of Chemical Substances. Five hours.

Text-books: Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

4. Qualitative Analysis, a laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius' Qualitative Analysis; Newth's Manual of Chemical Analysis.

5. Quantitative Analysis, a laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius' Quantitative Analysis; Newth's Manual of Chemical Analysis.

6. Technical Analysis and Industrial Processes, a lecture and laboratory course in which the elements of chemical engineering will be taught, and special attention will be given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Wagner's Chemical Technology, Allen's Commercial Organic Analysis.

7. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

8. History and Philosophy of Chemistry, an illustrated lecture course offered gratuitously to all students in the Department and given at irregular intervals.

9. Chemistry of the Carbon Compounds, a laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text-book: Gattermann's Practical Methods of Organic Chemistry.

10. Modern Methods of Iron and Steel Analysis, a laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

11. Chemistry of Explosive Substances, a laboratory and field-work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

12. Advanced course in Organic Chemistry, Bernthsen's Text-book of Organic Chemistry.

13. Lectures on the Principles of Analysis.

14. Metallurgy of Iron and Steel, a course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Medical School.

Special attention is paid in all courses to the methods of making notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students will prepare a bibliography on some special topic.

Students must provide themselves in all the laboratory courses with note books, towels, suitable clothing, and the necessary equipment for the work. Apparatus and material are supplied by the University.

## CIVIL ENGINEERING.

PROFESSOR PRESSEY, Head of Department.

MR. BAKENHUS, Instructor.

1. Land and Topographical Surveying, with theory and use of instruments, two hours; Practical Exercises and Field-work in October, November, March, and April, four hours.

2. Hydraulic Engineering (Canals, Rivers, Harbors, and Irrigation), one hour, and Constructive Exercises, one hour.

3. Railroad and Highway Engineering, two hours; Field-work as in course 1.

4. Masonry Construction, one hour; Constructive Exercises, two hours.

5. Sanitary Engineering, two hours; Design, two hours.

6. Materials of Construction, two hours; Exercises, one hour.

7. Framed Structures, three hours; Design, two hours.

## DRAWING.

PROFESSOR THURSTON, Head of Department.

ASSISTANT PROFESSOR MUIR.

1. Mechanical Drawing, a general course; two hours, with supplementary exercises; Freshman year:

- a. Elementary, geometrical, and graphical constructions.
- b. Elementary projections, sections, intersections, and developments.
- c. Elements of isometric drawing and perspective.
- d. Dimensioning, lettering, conventional symbols.

2. Machine Drawing, a general course in drawing-room practice; one hour; Sophomore year.

3. Machine Drawing, a course for Mechanical and Electrical Engineering students; four hours for one term; Sophomore year:

- a. Projections of intersections and their developments.
- b. Elementary "working drawings."

#### ADDITIONAL COURSES FOR SPECIAL STUDENTS.

4. Topographic Drawing; two hours, supplemented by practice:

- a. Technical lines.
- b. Hypsographic expressions, including contours, hachures, and shading.
- c. Topographic, cadastral, and public culture symbols.
- d. Scales and platting.
- e. Projections, reductions, and enlargements.
- f. Compilation, plain and in color.

5. Topographic Modeling and Field-work, including collection of data, the platting of contours, and the construction of card-board and plaster models. Two hours, supplemented by field-work.

6. Patent Office Drawing, as required by the rules of the United States Patent Office. Two hours.

7. Lettering as applied to Topographic, Architectural, and Mechanical Drawing. Two hours.

8. Mechanical Drawing for beginners:

- a. Geometrical problems.
- b. Projections and developments.
- c. Working drawings, sketches, details, etc.

9. Mechanical Drawing for students having no knowledge of mathematics.

Designing by means of graphic methods and empirical formulæ.

## ENGLISH.

PROFESSOR WILBUR, Head of Department.

Courses of study in the Department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

All of the English subjects are correlated with a view to consecutive study. Candidates for a degree may distribute these through four years, as follows: Freshman year, Courses 1, 4; Sophomore year, Courses 2, 3; Junior year, Courses 7, 6; Senior year, Course 8. Freshman English is required in all courses of study leading to a degree. The Language and Literature Course requires English 2 in the Sophomore year; three hours a week of English in the Junior year, and two hours of English in the Senior year. The Library Science Course requires English 2 and 3 in the Sophomore year, and English 7 and 6 in the Junior year.

Special students may profitably take these subjects in two years, as follows: First year, Courses 1, 2, 4; second year, Courses 3, 6, 7, 8.

### *Rhetoric and Composition.*

1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books, *Practical Elements of Rhetoric*, Genung; *Handbook of Rhetorical Analysis*, Genung.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) A verification of rhetorical theories by the analysis of selec-

tions from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Freshmen. Two hours.

2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Two hours.

3. English Composition. (Text-book, Wendell's *English Composition*.) Practice in various forms of discourse and studies in criticism. This is an advanced course in English composition. Essays are written weekly. These are exchanged and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.

#### *Language and Literature.*

4. The Literature of England. A lecture course, historical and critical. Members of class will read Taine's *History of English Literature* and make a special study also of some period. Freshmen. One hour.

5. Spenser and Milton. A comparative study of Elizabethan and Puritan Poetry. Two hours, first term. *Not offered in 1900-1901.*

6. The Literature of America. Lectures in history and criticism; discussions and papers on representative men and books. Two hours, second term.

7. The English Novel. Development of the Novel, with critical studies of selected works. Two hours, first term. *Not offered in 1899-1900.*

8. Shakespeare. Selected plays studied comparatively. Moulton's *Shakespeare as a Dramatic Artist* is used. The *Temple Shakespeare* is recommended. Two hours.

9. Old English. Elementary course. (Text-books: *First Book in Old English*, Cook; *Exercises in Old English*, Cook). The essentials of the grammar and reading of selections from Old English texts. One hour.

**FINE ARTS AS APPLIED TO ARCHITECTURE.**

**PROFESSOR AMATEIS, Head of Department.**

**MR. MEYER, Instructor in Fine Arts.**

**MR. SAYER, Instructor of the Perspective Class.**

**MR. BRADBURY, Assistant in Architectural Drawing.**

1. Free-hand Drawing. One hour.
2. Architectural Drawing. (The five orders.) One hour.
3. Architectural and Ornamental Drawing. Six hours, Sophomore year.
4. Architectural and Ornamental Drawing. Six hours, Junior year.
5. Architectural and Ornamental Drawing. Six hours, Senior year.
6. Modeling.
7. Lectures on the History of Ornaments, Painting, and Sculpture.

The work in courses 3, 4, and 5 is so arranged as to illustrate architectural ornamentation and decoration discussed in the lectures on the history of architecture, and to furnish skill and practice in the treatment of the assigned problems in architectural design.

Special attention is given to the study of the different styles in architecture and ornament.

The Free-hand class includes practice in landscape and figure, taught by means of pencil, pen, and wash, from drawings, from casts, or from nature.

The Perspective and Water-color class includes the study of perspective and practice in water-color for students in Architecture.

Mr. Meyer and Mr. Sayer will make arrangements for special courses—lessons to be given during the day or the evening.



## GEODESY.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.

## GEOLOGY AND MINERALOGY.

PROFESSOR MERRILL, Head of Department.

DR. STANTON, Instructor in Paleontology and Stratigraphical Geology.

MR. TWITCHELL, Assistant in Geology.

### *Mineralogy.*

1. Descriptive Mineralogy. Two hours, first term.
2. Determinative Mineralogy. Four hours, second term.

### *Geology.*

1. Systematic Geology; Geognosy; Dynamical, Structural, and Stratigraphical Geology. Two hours. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock-weathering and Soils.

2. Economic Geology. Two hours. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration.

Mineralogy is taught as introductory to Geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical, and includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and

access is given to a varied collection, showing the minerals not merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

The course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock-formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under (first) mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (second) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

## GERMAN.

PROFESSOR SCHOENFELD, Head of Department.

MR. HYDE, Instructor.

1. Accurate training in elementary grammar; pronunciation and translation from English into German; exercise in conversation; readings from the easier German prosaists and poets. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc. ; extensive translations into German ; selected stories ; Gore's Science Reader, fourth edition ; one or two classics. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache* ; special preparation for scientific professional work ; Helmholtz on Goethe's work in natural history (edition of Seidensticker) ; Humboldt's *Kosmos* ; critical studies of German classics ; lectures on German literature. Two hours.

4. A special course in German training for advanced students in the Historic and Economic Departments. Schoenfeld's *German Historical Prose* and the standard works of German historians and economists will be read. Two hours.

5. An elective course in German conversation will be instituted from the start and conducted with systematic gradation for students of all grades.

## GREEK.

### ASSISTANT PROFESSOR DALES.

1. Elementary Greek. The thorough mastery of the forms is the object of the first year's work. Constant practice is afforded in translating from Greek into English and from English into Greek. An outline of Greek syntax is acquired. During the latter part of the year the first book of the *Anabasis* is read. Text-books: White's *First Greek Book* ; Goodwin's *Anabasis*. Two hours.

2. First half year, *Anabasis*, Books ii and iii, accompanied by a more thorough study of syntax and review of forms. During the second half year the first three books of the *Iliad* are read, with some study of the origin and development of Epic poetry. Two hours.

3. First half year, further study of Epic Poetry, accompanied by the reading of a portion of the *Odyssey*. The second half year is devoted to Herodotus. A careful study of the dialect is

made and some attention is paid to the origin and development of History. Two hours.

4. Greek Oratory. The origin and development of Oratory among the Greeks is fully traced, and especial emphasis is placed upon its importance in any historical study of Greek style. Selections from various orators, especially Lysias and Demosthenes, are read and discussed in class. Two hours.

5. Greek Drama. The work in this course is more advanced, and deals largely with matters literary and historical. Selections from Attic tragedy and comedy are read and discussed. Two hours.

All courses are accompanied by study in grammar and composition.

Courses 1 and 2 do not count for a degree.

#### **Literature and Linguistics.**

6. Greek Literature: A course of lectures tracing the history of Greek literature to the close of the classical period. This course is designed not merely for Greek students, but for all who are interested in literary studies. A knowledge of Greek is not necessary. One hour.

7. Linguistic Science: A course of lectures, with some use of a text-book in the latter part of the year. The course is designed for students of either ancient or modern languages. The general principles of Linguistic Science are outlined and illustrated, and sketches are given of the various languages of the Indo-European family. No knowledge of Greek or Latin is necessary. One hour.

8. Elementary Sanskrit: A fair knowledge of either Greek or Latin is presupposed. The fundamental principles of Sanskrit grammar are set forth by the use of a grammar and by informal lectures. The latter part of the year is devoted to the reading of easy narrative. Two hours.

## HISTORY.

PROFESSOR FARQUHAR, Head of Department.

ASSISTANT PROFESSOR PRIEST.

1. American History. Text-books: Eliot, Fiske, Johnston. Reference books: Bancroft, Adams, Von Holst, McMaster, Eggleston. Two hours.

2. Ancient History. Text-books: Myers' Eastern Nations and Greece; Allen's Roman People. Reference will be had to all available works on the subjects pursued. Instruction will be given by lectures, with special reference to cause and effect and the great underlying principles of History. To reproduce vividly the life and thought of each age, with a tracing of the lessons and comparisons to be drawn from the same, will be the constant aim. The connection of the subcourses—Egypt, Chaldaea, Assyria, Greece, and Rome—is such that new students can with advantage take up the course at any time in the year. Two hours.

3. Mediæval History. Text-books: Myers, Bryce, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Text-book: Myers. Two hours.

5. English History. Text-books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.

6. Bible History. Lecture course. Reference books: Ancient History generally, with Edwald, Renan. Two hours.

Instruction in this department is given both by text-books and lectures. The method is rational and comparative rather than precise and mechanical; the course of human progress and development, the growth of institutions and civilization, receives more emphasis than separate facts. Essay-work is required. The unequalled facilities for historical research afforded by the Capital of the Nation are held in view of the classes.

## LATIN.

PROFESSOR CARROLL, Head of Department.

ASSISTANT PROFESSOR DALES.

1. Elementary Latin. A thorough drill in forms is given. This is facilitated by constant practice in translating from English into Latin and Latin into English. Text book: Collar and Daniell's First Latin Book. During second term selections from Viri Romæ are read. Two hours.

2. Nepos and Cæsar. A thorough drill in syntax is given. Prose composition once a week. Two hours.

3. Selected Orations of Cicero. Careful study of periods of Cicero. Lectures on Roman Oratory. Two hours, first term.

Vergil. An effort is made, through the study of versification and poetical usage, to get an appreciation of the poetry of Vergil. Two hours, second term.

Prose composition throughout the year.

4. Cicero's De Senectute, Odes of Horace. Special attention is given to scansion. Several of the odes are memorized. Two hours, first term.

Livy. Books I and II, or XXI and XXII. Study of early history of Rome or of second Punic war. Two hours, second term.

Prose composition throughout the year.

5. Selected Letters of Pliny, Satires and Epistles of Horace. Those satires and epistles are read which best illustrate Horace and his time. Two hours, first term.

Tacitus, Germania and Agricola, Selected Letters of Cicero. Careful attention given to peculiarities of style of Tacitus. Prose composition. Two hours, second term.

6. Comedy. Plautus (Captivi), Terence (Phormio). Study of early Latin. Lectures on relation of Roman comedy to Greek comedy. Two hours, first term.

Lucretius, Selections. Brief study of the philosophy of the poem. Two hours, second term.

Courses 1, 2, and 3 do not count for a degree.

**Classical Archaeology.****PROFESSOR CARROLL.**

The public collections of Washington afford considerable illustrative material for the study of Greek and Roman Life and Art, and the importance of this study to the students of the classics cannot be too strongly emphasized. Thus the Corcoran Gallery of Art has an excellent collection of plaster casts of Greek and Roman sculpture, and the Halls of the Ancients, with its reproduction of a Roman house, its Panorama of Rome, and numerous engravings and models, presents an unusual opportunity for the study of Roman life. Permission to meet classes in these buildings has been obtained, and the following courses are offered :

1. Introduction to Greek and Roman Sculpture. A systematic study of the masterpieces of antique sculpture as reproduced in the casts of the Corcoran Gallery of Art. Once a week, first half session.

2. The Private Life of the Romans. A study of the Roman house, its architecture, furniture, and ornamentation; family life, education, and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies, and other aspects of Roman life.

**LIBRARY SCIENCE.****PROFESSOR SPOFFORD, Head of Department.****ASSISTANT PROFESSOR PRESNELL.****ASSISTANT PROFESSOR CUTTER.**

The course in Library Science was instituted in October, 1897, and during the year 1899-1900 twenty-seven students have registered for the work. The intention is to provide such practical instruction as shall fit students for positions as librarians or library assistants, making the instruction thorough, and training pupils for habits of research, qualifying them for other equally advanced employments.

1. Elementary Cataloguing. Practice in cataloguing such books as will best illustrate the main features of cataloguing. Cards are returned to students after correction, and may be preserved. Lectures will be given on catalogue rules, on the different forms of printed and written catalogues, on methods of duplication, and on the mechanical accessories used. Two hours.

2. Accession Department Work. Inspection and purchase of books. Reception, checking bills, collation, preparation for shelves. Accessioning. Order slips, order and serial blanks. One hour.

3. Elementary Classification and Shelf Department Work. Lectures on classification systems and notations; on shelf arrangements, shelf-listing, and stock-taking. One hour.

4. Library Administration. Loan systems. Methods of registering borrowers; charging systems; delinquent notices, fines; inter-library loans. One hour.

5. Typewriting. Two hours.

6. Library Administration. Accounts. Statistics of readers and reading, care of supplies, etc. One hour.

7. Library Administration. Care and preservation of books. Book-binding and repair or restoration. Injuries from heat, gas, damp, insects, thefts, mutilations, etc. Treatment of periodicals and pamphlets. One hour.

8. Library Administration. Rules, access to shelves, library advertising, librarian's reports, relations to trustees or library authorities; buildings, furniture and fittings, light, heat, and ventilation; selection of assistants, salaries, leave, hours, etc. One hour.

9. Advanced Cataloguing. Preparation of a dictionary catalogue on the most advanced plan. Finding lists and accession lists. Printed catalogues. Cataloguing rarities. Government publications. Two hours.

10. Bibliography. Universal, national, trade, and special bibliographies. Preparation of bibliographies and finding lists. Methods of citation and abbreviation. History of printing, paper, publishers, etc. Two hours.



11. History of Libraries. American, foreign. Copyright, in relation to libraries and literature. Qualifications of a librarian. One hour.

12. Reference Work. Helps for reader and student. Reader's guides. Note-taking and indexing. Preparation of abstracts. Reading methods. Two hours.

13. The library and the public. Organization of libraries. Library commissions and legislation. Traveling libraries. Library associations. Uses of the library to the university, the common school, the citizen, the official. One hour.

14. Preparation of thesis. Each student will be expected to present a thesis which will show the ability to do independent work. The member of the faculty having the student under his instruction in the branch on which the thesis is written will render all needed assistance.

In each of the subjects in the course extra time may be required for the practice necessary to put the facts taught to use.

## MATHEMATICS.

PROFESSOR HODGKINS, Head of Department.

MR. HODGKINS, Instructor.

(A.) Elementary Algebra: Three hours. Bowser's College Algebra.

(B.) Plane Geometry: Three hours. Gore's Plane and Solid Geometry.

1. Algebra: Three hours. Bowser's College Algebra.

2. Geometry: Two hours. Gore's Plane and Solid Geometry.

3. Trigonometry: Three hours, first term. Crockett's Plane and Spherical Trigonometry.

4. Analytic Geometry: Three hours, second term. Bowser's Analytic Geometry.

5. Calculus: Two hours. Bowser's Calculus.

6. Differential Equations: Two hours. Johnson's Differential Equations.

7. Least Squares: Two hours, ten weeks.

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.

8. Determinants: Two hours, ten weeks. Weld's Determinants; Hanus' Determinants.

9. Quaternions: Two hours, ten weeks. Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: Two hours, ten weeks.

11. Theory of Equations: Two hours, ten weeks.

12. History of Mathematics.

Courses *A* and *B* are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 will have studied plane geometry, and through quadratic equations in algebra; but as a thorough and ready knowledge of these elements is essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, they serve as preparation for the advanced courses described under the School of Graduate Studies. Usually only three of these five courses will be given each year.

## MECHANICAL ENGINEERING.

PROFESSOR AYRES, Head of Department.

1. Machine Design. Proportioning of the following machine parts: Fastenings, toothed and belt gearing, rotating and sliding pieces, bearings, and connecting rods.

Text-book: Klein.

Four hours, second term, Sophomore year.

Four hours, first term, Junior year.

2. Kinematics. Nature of mechanisms. Diagrams of the changes of position and speed in mechanisms.

Text-book: Kennedy.

Three hours, second term, Sophomore year.

Two hours, first term, Junior year.

3. Boilers. Location, construction, strength, and wear and tear of boilers.

Text-book: Peabody and Miller.

Two hours, second term, Sophomore year.

4. Thermodynamics. The steam-engine and other heat engines.

Text-book: Ewing.

Three hours, Junior year.

5. Mechanical Technology. Shop visits. Examination of processes and appliances pertaining to pattern-making, molding, casting, forging, and finishing.

Four hours, Junior year.

6. Mechanics of Machinery. Graphical statics of mechanisms.

Text-book: Hermann-Smith.

Three hours, second term, Junior year.

7. The Mechanical Engineering of Power Plants.

Text-book: Hutton.

Three hours, second term, Junior year.

8. Machine Design. Theory of and calculations for a high-speed steam-engine.

Text-book: Klein.

Four hours, Senior year.

9. Mechanics of the Machinery of Transmission.

Text-book: Weisbach-Hermann.

Four hours, Senior year.

10. Measurement of Power. Practical work in indicating steam-engines, determining the evaporative efficiency of boilers, &c.

Five hours, Senior year.

## METEOROLOGY AND ITS APPLICATIONS.

PROFESSOR ABBE, Head of Department.

ASSISTANT PROFESSOR MARVIN.

The courses in Meteorology in the Scientific School and the School of Graduate Studies are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the lectures, the professor devotes one hour a week to a "quiz" class, in which, by questions and answers, he seeks to remove any difficulties that remain.

1. Observational Meteorology. The student will keep a personal diary of the meteorological conditions. The lectures will relate to instruments and methods of observing, computing, and graphic presentation of results. Two hours.

2. General Climatology. The lectures will cover all the elements of climate and some of the physical processes explaining the phenomena, the theory of probabilities so far as it is applied to climatology and the determination of the coefficients or other factors that represent climatological peculiarities. Two hours.

3. Special subjects in climatology and meteorology and the relation of climate to geology, vegetation, anthropology, hygiene, and human industries. Two hours.

## PHILOSOPHY.

PROFESSOR DUMM, Head of Department.

1. Logic, Deductive and Inductive. Text-books: Jevons-Hill, Elements of Logic, and Fowler's Inductive Logic, with special reference to Hyslop's Elements of Logic and readings by

the class in Lotze's *Outlines of Logic*. Considerable practice is required in applying the principles to concrete examples, for the sake of discipline as well as insight into the method of the mind in correct thinking. The course closes with lectures on the classification of the sciences. Two hours.

2. **Psychology.** Lectures on general psychology the first term. After viewing the fundamental processes of the mental life the field of systematic psychology is treated in order, the scope of this term's work including so much as is essential of the physical basis and correlations of conscious processes on the one hand, and leading up on the other hand to those more general problems which grow out of the consideration of mental phenomena. The works of Ladd, James, and Dewey are the more immediate basis of the lectures, the class using Ladd's *Outlines of Descriptive Psychology* as a handbook for many of the topics, and doing collateral reading for this and the remainder of the course in the above authors and others including Baldwin, Titchener, Höffding, Wundt, Sully, Lotze, Scripture, Sanford, Halleck, Harris, and Rosenkranz.

In the second term special aspects of psychology are treated more in detail on the basis of the work of the first term :

(a.) **Physiological Psychology.** The anatomy and physiology of the nervous system are examined by means of dissections, models, microscopical slides, and experiments, the chief problems of psycho-physics and psychometry being experimentally indicated.

(b.) **Experimental Psychology.** A course of experiments on the senses, including the use of the color wheel and special attention to monocular and binocular vision. The laws of suggestion are especially brought out in these experiments.

(c.) **Psychologic Foundations of Education.** An examination of the mental life in its development, with reference to the problems and methods of so conducting the growth and coördination of its forms in the various stages as to produce the best attainable results in educational processes and the broadest participation in the life of the world. The work of above name by Dr. William T. Harris is read with the class.

**Thesis.** At the proper point in the course each student selects some topic for special study and presents his paper before the class for discussion and criticism. Two hours.

3. Ethics. A survey of ethical theories, on the basis of Sidgwick's History of Ethics, is combined with constructive work in theory of ethics, with Dewey and Mackenzie as guides. For special topics and for the bearing of ethical philosophy upon allied sciences, other references include such authors as Sidgwick, Martineau, Green, and Calderwood, together with Bascom's Social Theory and Smyth's Christian Ethics. Thesis required. Two hours.

## PHYSICS AND ELECTRICAL ENGINEERING.

PROFESSOR WOLFF, Head of Department.

MR. REISNER, Laboratory Assistant.

1. General Physics. Three hours. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Text-books: Glazebrook's Mechanics; Ames' Theory of Physics.

2. Elementary Mathematical Theory of Electricity and Magnetism. Three hours, first term. Text-book: S. P. Thompson's Elementary Lessons in Electricity and Magnetism.

3. Dynamo-electrical Machinery. Three hours, second term. Text-book: Hawkins and Wallis, The Dynamo.

4. Advanced Mathematical Theory of Electricity and Magnetism. Three hours, first term. Text-book: Gerard's Electricity and Magnetism (translated by Duncan).

5. Dynamo-electric Machinery. Advanced course. Three hours, second term. Text-books: S. P. Thompson's Dynamo-electric Machinery and Polyphase Currents; Jackson's Alternating Currents.

6. Technical Applications of Electricity. Two hours.

A course covering the most important applications of electricity: Telephony, Telegraphy, Lighting, Power Transmission, Electro-metallurgy, Electro chemistry, etc., with special attention to the latest methods adopted.

To be taken with course 14.

7. **Advanced Physics.** A mathematical course intended to acquaint the student with the methods of mathematical physics, and as an introduction to the more advanced courses in the School of Graduate Studies. Three hours, second term.

8. **Physical Chemistry.** An elementary course with special reference to the modern theories of solutions and electro-chemistry. Two hours.

9. **Elementary Laboratory Work.** Fundamental measurements and experiments in all branches of Physics. Three hours, both terms, or five hours, second term.

10. **General Electrical Measurements.** A laboratory course for Juniors in the Electrical Engineering Course. Six hours. Text-book: Carhart and Patterson's Electrical Measurements.

11. **Advanced Laboratory Work for Juniors.** This includes such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols. Six hours.

12. **Advanced Laboratory Work for Seniors in the Electrical Engineering Course.** Dynamo and motor-testing, determinations of characteristics, etc. Six hours.

13. **Advanced Laboratory Work for Seniors in the course in Physics and Mathematics.** Students first repeat a number of classic researches in experimental physics, and with this preparation undertake original work under the guidance of the head of the department.

14. **Inspection of Electric Light and Power Plants, etc.** In and around Washington and Baltimore are a number of the most modern electric-lighting and street-railway plants, telephone exchanges, telegraph operating-rooms, etc., which afford students of electrical engineering an excellent opportunity to familiarize themselves with nearly all types of electrical apparatus in use. The visits are followed by a class discussion.

Occasional meetings are held at which papers on special subjects are read by advanced students.

For a description of the apparatus in the electrical engineering laboratory available for tests, see page 91.

3. Ethics. A survey of ethical theories, on the basis of Sidgwick's History of Ethics, is combined with constructive work in theory of ethics, with Dewey and Mackenzie as guides. For special topics and for the bearing of ethical philosophy upon allied sciences, other references include such authors as Sidgwick, Martineau, Green, and Calderwood, together with Bascom's Social Theory and Smyth's Christian Ethics. Thesis required. Two hours.

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## POLITICS AND ECONOMICS.

PROFESSOR CRAVEN, Head of Department.

DR. WRIGHT, Lecturer on Statistics.

MR. MCNABB, Instructor in Business Law.

MR. NEWCOMB, Instructor in Transportation.

*Business Law.*

1. Practical Business, Commercial and Banking Law :

(1.) Business Law in general :

Principles on which it rests.

(2.) The Law of Contracts :

a. Agency, Partnership, Corporations, Real Estate,  
Personal Property, etc.

b. Commercial Paper :

Rights and Duties of Parties to Bills, Notes,  
Drafts, and Checks.

(3.) Descent and Distribution of Property :

Duties of Executors, Administrators, Trustees,  
Guardians, etc.

(4.) Business Forms and Practice. Two hours.

*Economic Development.*

2. The History of Economic Growth among Ancient, Mediæval,  
and Modern Peoples down to A. D. 1500. Two hours,  
1901-1902.

3. Modern Industrial and Commercial Changes and Legislation  
since A. D. 1500. Two hours, 1900-1901.

*Politics and Administration.*

4. Historical and Practical Politics—Rise and growth of general,  
State, and municipal government in the United States.  
Two hours, 1901-1902.

5. The State ; Theories and Forms of Government, Ancient and  
Modern. Two hours, 1900-1901.

*Statistics and Transportation.*

6. Comparative : A numerical study of social relations, with par-  
ticular regard to the population, industries, and commerce  
of the United States and other leading nations. Two  
hours, 1901-1902.

7. Railway Transportation : History and Development of Railways. Theories of Rates, Combinations, State Ownership or Control. Two hours, 1900-1901.

*History and Science of Finance.*

8. Money, Coinage, Credit, and Banking ; Government Paper, U. S. Moneys. Two hours, 1901-1902.
9. Public Expenditure, Public Revenue, Taxation, Financial Administration, Budgets and Audits. Two hours, 1900-1901.

*Political Economy.*

10. An Historical Introduction to the Study of Political Economy. Two hours, 1901-1902.
11. The Principles of Economics. Two hours, 1900-1901.

*Sociology.*

12. The Principles of Sociology. Two hours, 1900-1901.
13. A Study of Individualism, Socialism, and of the Practical Social Problems of State and Municipal Administration in Respect to Sanitation, Charities, Crime, etc. Two hours, 1901-1902.

## ROMANCE LANGUAGES.

PROFESSOR RAMSEY, Head of Department.

MR. CLARK, Instructor in French.

MR. MAILLET, Assistant in French.

MR. FAULKNER, Assistant in Spanish.

*French.*

1. As the aim of the instruction during the first year is to give the students a working knowledge of the language, their efforts are centered upon its grammatical construction and the acquisition of a vocabulary. By the end of the year the class is expected to have mastered the essentials of the grammar, and to be able to read easy French prose and to understand it when spoken. To this end the French language is used as far as practicable as a medium of instruction. Two hours.

Text-books: Chardenal's French Course; Bercy, *La Langue Française* (part 1); Roulier's First Book of French Composition; Verne, *Expédition de la Jeune-Hardie*; Berthet, *Le Pacte de Famine*.

2. Continuation of the study of grammatical construction, with exercises in composition and conversation. Occasional lectures in French on topics of general interest. Oral drill in sight rendering of English into French. Study of synonyms and idioms. Two hours.

Text-books: Whitney's Practical French Grammar; Hennequin's French Idioms; Sandeau, *Mlle. de la Seiglière*; Sand, *La Mare au Diable*; Rostand, *Cyrano de Bergerac*.

3. General introduction to the study of French literature. Literary composition and the principles of rhetoric. Lectures on the development of the language and upon prominent periods of the literature. Two hours.

Text-book: René Doumic, *Historie de la Littérature Française*. The texts read, which must be representative of at least three distinct periods, are selected by the class. In addition to the amount of reading in class-hours, the students are required to examine and report upon twenty literary masterpieces, dating from Villon to the present time. (These works are furnished from the library of the Department.)

4. Advanced prose composition and verbal criticism. Two hours.

Text-books: Roulier's Second Book of French Composition; Méras, *Syntaxe Pratique*; Muzzarelli, *Antonymes de la Langue Française*; Crouslé, *Grammaire Française* (Cours Supérieur); Legouvé, *La Lecture en Action*.

5. French Conversation for beginners. (Mr. Maillet.) Two hours.

A four months' course, given twice yearly, beginning October 1 and February 1, intended for members of classes 1 and 2 who desire more instruction in conversation than can be given in the required work of those years.

6. French Conversation for advanced students. (Mr. Maillet.) Two hours.

*Spanish.*

The instruction in Spanish in this department has always been conducted with especial reference to the constantly increasing intercourse between the United States and the Spanish-American Republics, as much attention as possible being given to the customs, usages, resources, and products of those countries. In view of recent political events, the necessity becomes still more obvious for accentuating the New World features of the Castilian tongue.

7. The class is drilled in pronunciation, in hearing the spoken language, in writing from dictation, and in oral and written translation into Spanish of carefully graded exercises. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

Text-books: Ramsey's Elementary Spanish Grammar and Elementary Spanish Reader.

8. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms. History and development of the Castilian language and literature. Exercises in literary composition. Reading from standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's Text-book of Modern Spanish and Spanish Prose Composition; and texts, to be selected as required.

9. Advanced prose composition and verbal criticism. Two hours.

Text books: Ferreyra, Lecciones de idioma castellano; Arpa, Ejercicios prácticos; Valbuena, Ripios académicos and Ripios ultramarinos; Orellana, Cizaña del lenguaje.

10. Spanish conversation for beginners—similar to Course 5 in French. One hour.

*Italian.*

11. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered

the class is led at once to the reading of the easier prose authors, ending with the "Alberto" of De Amicis. Two hours.

Text-books: Lemmi's Italian Grammar; Comba, *La Lingua Italiana*.

12. Further study of the grammatical construction and the principles of syntax and style. History and development of the Tuscan language and literature. Selections from Dante Alighieri, Petrarca, Boccaccio, Ariosto, Tasso, Goldoni, Pellico, and Manzoni. Two hours.

Text-books: Sauer's Italian Grammar; Montague's *Modern Italian Readings*.

## ZOÖLOGY.

MR. BARTSCH, Instructor.

1. A general course in Zoölogy. This will include lectures and laboratory work. The lectures in their scope cover all the branches of the animal kingdom, from the unicellular organisms to mammals, and correlated with these lectures is the study and dissection of type specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution.

Lecture, one hour.

Laboratory, two hours.

2. Continuation of the work mapped out in course 1, special attention being given to the comparative histology of animal tissues.

Lecture, one hour.

Laboratory, two hours.

3. A course in Ornithology. In this course special attention will be directed to the study of the birds of the District of Columbia. Frequent field excursions will be made to familiarize the student with the haunts and habits of these forms.

Lecture, one hour.

Laboratory, two hours.

Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be

arranged upon consultation with the professor, provided that students in sufficient numbers present themselves.

The collections of the U. S. National Museum and the Smithsonian Institution will be consulted in connection with all these courses.

## MECHANICAL AND ELECTRICAL ENGINEERING LABORATORY.

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches. The Mechanical Engineering Department is also provided with a valuable collection of machine parts, illustrating the best modern practice, such as shaft-hangers, pedestals, valves, jacks, friction clutches, etc.

It is expected that arrangements will be perfected during the present session to provide the necessary additional testing machines and instruments to give a laboratory course in engineering practice. The lighting and heating plant now being installed in University Hall will form an excellent basis for such work.

A 25 K. W. direct current Westinghouse dynamo, directly connected to a Westinghouse gas engine of the latest type, has been installed. The dynamo was specially constructed to adapt it to experimental requirements, generating both direct and polyphased alternating currents. The surplus power of the Westinghouse gas engine will be utilized in driving smaller dynamos of various types, for testing purposes.

The engine is one of the latest and most improved types of gas engines, being a two-cylinder single-acting engine, giving an explosion every revolution, and an exceptionally close regulation. Provision is made for testing the efficiency of each machine independently, or the combined unit under a great variety of conditions.

In addition to the above, an experimental electrolytic refining plant has been installed, current for which is furnished by a Crocker & Wheeler motor dynamo, giving 150 amperes at 6 volts. Special investigations in electrometallurgy are in contemplation.

The laboratory is being equipped with the necessary measuring apparatus, direct and alternating current ammeters and voltmeters, galvanometers, standard resistances, standard cells, etc.

## UNIVERSITY LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m.

## UNIVERSITY LECTURES.

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

## EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees :

“ Examinations for degrees in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported by the Faculty of each to the President of the Faculties at least two weeks before the date of Commencement.”

“ Examinations for prizes in each of the said departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of Commencement.”

“ No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer.”

Professors and Instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.

## REQUIREMENTS FOR DEGREES.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year, with a*



satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The Degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered, or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

### SCHOLARSHIPS.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Corcoran Scientific School of The Columbian University, at the discretion of the Dean of said School."

Edward T. Fristoe Scholarship has been founded in memory of the first Dean and Professor of Chemistry of the Corcoran Scientific School. The income from this fund is not yet available.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, consist of five scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

All awards of scholarships are made for one year only, but may be renewed. Applications for Scholarships should be filed with the Dean not later than September 15th.

### PRIZES.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

**SCHMIDT PRIZE.**—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a pocket case of the finest Drawing Instruments. All students in full standing in the second year taking a full course in one of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments; Descriptive Geometry plates to count seventy-five (75) per centum, and twenty-five (25) per centum to be evenly distributed between the yearly examinations in Descriptive Geometry and the second year mathematical studies taken in common by all four departments.

**VEERHOFF MEDAL.**—Mr. W. H. Veerhoff offers a gold medal to that student in Architecture who obtains the best average in the first year of the course in Fine Arts as applied to Architecture.

**AMATEIS MEDAL.**—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

#### *Prize Awards, 1899.*

Schmidt Prize.....Humphreys Milliken.  
Veerhoff prize .....Joseph C. Hadsall.

## ANNUAL TUITION FEES.

For courses not including laboratory work :

Courses in one Department.....	\$40 00
Courses in two Departments.....	75 00
Courses in three or more Departments.....	100 00

Laboratory courses :

Course 2 or 3 in Chemical Laboratory, including cost of material and apparatus.....	50 00
Laboratory Course in Chemistry (except 2 or 3)....	100 00
For chemicals used.....	25 00
Deposits (returnable) for breakage.....	25 00
Laboratory Courses in Assaying of Ores and Bullion..	40 00
For materials used.....	20 00
Elementary Course in Physical Laboratory.....	20 00
Advanced Course in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy (for the year).....	60 00
For materials used.....	10 00

### ANNUAL FEES FOR FULL COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

Freshman year (common to all courses) .....	\$100 00
Sophomore year, Course 1 (laboratory fees extra)....	100 00
Junior       "       "       1       "       "       "       ....	100 00
Senior       "       "       1       "       "       "       ....	100 00
Sophomore   "       "       2 .....	100 00
Junior       "       "       2 .....	100 00
Senior       "       "       2 .....	100 00
Sophomore   "       "       3 .....	120 00
Junior       "       "       3 .....	130 00
Senior       "       "       3 .....	130 00
Sophomore   "       "       4 .....	115 00
Junior       "       "       4 .....	100 00
Senior       "       "       4 .....	100 00

Sophomore year, Course	5	\$130 00
Junior	" " 5 (deposit, \$10.00).....	150 00
Senior	" " 5 (deposit, \$10.00).....	150 00
Sophomore	" " 6 .....	130 00
Junior	" " 6 (deposit, \$10.00).....	150 00
Senior	" " 6 (deposit, \$10.00).....	150 00
Sophomore	" " 7 .....	100 00
Junior	" " 7 .....	100 00
Senior	" " 7 .....	100 00
Sophomore	" " 8 .....	130 00
Junior	" " 8 .....	120 00
Senior	" " 8 .....	130 00
Sophomore	" " 9 .....	105 00
Junior	" " 9 (deposit, \$10.00).....	150 00
Senior	" " 9 .....	100 00
Sophomore	" " 10 .....	100 00
Junior	" " 10 .....	100 00
Senior	" " 10 .....	100 00
Sophomore	" " 11 .....	100 00
Junior	" " 11 .....	100 00
Senior	" " 11 .....	100 00
Sophomore	" " 12 .....	100 00
Junior	" " 12 .....	100 00
Senior	" " 12 .....	100 00
Sophomore	" " 13 .....	100 00
Junior	" " 13 .....	100 00
Senior	" " 13 .....	130 00
Sophomore	" " 14 .....	130 00
Junior	" " 14 .....	130 00
Senior	" " 14 .....	130 00
Diploma fee (final).....		10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, unless special arrangement be made with the Treasurer to suit the convenience of the student. Fees for single or for special studies are payable in advance in half-yearly installments. No deduction on account of

absence will be made for less time than one quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study should inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.

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### ROOMS AND BOARD.

During the year 1899-1900 desirable rooms, convenient to the University buildings, have been offered at prices ranging from \$5 to \$10 per month, and good board has been offered from \$15 to \$20 per month. A list of persons offering rooms and board can be obtained from the Registrar of the University.

For further information regarding the Corcoran Scientific School, application may be made to

HOWARD L. HODGKINS, *Dean,*  
*The Columbian University.*

## STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

### *Candidates for Degrees.*

Name.	State.	Address.
Allison, Isaac.....	D. C....	Kendall Green, D. C.
Ancona, John F.....	D. C....	2031 H Street.
Baker, Edward Stuart.....	Va.....	210 N. Wash'n Street, Alexandria, Va.
Beale, Carroll.....	D. C....	3132 P Street.
Bolton, William Reinhard.....	Iowa...	522 2d Street.
Bowie, William Love.....	N. C....	1822 4th Street.
Brann, Berlin G.....	D. C....	1309 F Street.
Brewer, Martha Mary.....	Md.....	118 Mass. Ave., N. E.
Bryant, Herbert L.....	D. C....	1605 Conn. Avenue.
Burrows, Alvin Tod.....	Iowa....	1012 12th Street.
Calver, Arthur W.....	D. C....	1721 P Street.
Camp, Oswald E.....	D. C....	2118 L Street.
Campbell, Roy.....	Mont...	1601 31st Street.
Church, H. A. ....	D. C....	626 N. C. Ave., S. E.
Clark, William E.....	Pa. ....	1021 Conn. Avenue.
Cleary, James Douglas.....	D. C....	120 F Street S. E.
Colestock, Harry Ludwig.....	Pa.....	937 Mass. Avenue.
Cooper, J. Herschell.....	Ohio...	457 Florida Avenue.
Covell, Leon Claude.....	N. Y....	1122 G Street, S. E.
Davant, Frank Baker. ....	Ala.....	109 5th Street, S. E.
Davis, William Hammatt.....	N. Y....	1477 Kenesaw Street.
Didden, George A.....	D. C....	1418 Binney Street.
Dieterich, Albert Edgar....	D. C....	1209 East Capitol St.
Dodge, Moncena Myles.....	Maine..	1336 Vermont Ave.
Doyle, Louis Irving.....	Pa.....	1902 3d Street.
Dunkerly, William.....	D. C....	1713 15th Street.
English, Walter Charles.....	D. C....	2907 P Street.
French, Clara M.....	Ala.....	645 Q Street.
Galliher, Charles H.....	D. C....	107 5th Street, S. E.
Gates, Otis H.....	Fla....	123 4th Street, S. E.
Getsinger, Buist C.....	S. C....	927 New York Ave.
Giles, Louis E.....	Mich...	23 B Street, S. E.

Name.	State.	Address.
Gillis, W. Weir .....	Wyo ...	1307 Kenyon Street.
Gordon, John Blake.....	D. C....	6 Cooke Place.
Graves, Sheldon H.....	D. C....	1221 K Street.
Gwinn, Thomas R.....	Md ....	1225 Conn. Avenue.
Helbig, Arthur Lee.....	D. C....	1742 7th Street.
Hoeke, Henry William.....	D. C....	116 7th Street, S. E.
Holt, Lester Morton.....	Wis.....	1017 12th Street.
Jackson, Hebert Camp.....	D. C....	712 18th Street.
Kern, Walter Everett.....	D. C....	29 R Street.
Kleberg, Alfred L.....	Texas...	214 North Capitol St.
Lamson, Louis B.....	Mass....	239 8th Street, N. E.
Latimer, William James, Jr...	Md.....	27 Harrison Street, Anacostia, D. C.
Law, Leroy Mahler.....	D. C....	310 9th Street, N. E.
Lillie, Ray D.....	Mich....	Indian Office.
Love, George Washington.....	Ill.....	1814 K Street.
Lowe, Henry F.....	Va . ...	113 5th Street, N. E.
Magill, C. H.....	D. C....	69 H Street.
Maltby, Fred. A.....	D. C....	Benning, D. C.
Marsh, Earl G.....	Ohio....	628 E Street, N. E.
Maupin, John W.....	Va.....	228 East Capitol St.
May, R. Harold.....	D. C....	1229 21st Street.
McCrary, J. Adger.....	S. C....	924 Mass. Avenue.
McIntyre, Otis L.....	D. C....	1633 I Street.
McLaughlin, James A.....	Colo ...	1123 14th Street.
Milliken, H.....	Tenn....	Stratford Hotel.
Morgan, John D .....	Ohio....	1338 Yale Street.
Mueden, George Frederic.....	D. C....	437 M Street.
Newberne, R. E. L.....	Texas...	1453 14th Street.
Norris, Rastus Ransom.....	D. C....	331 C Street.
Nussbaum, Emile P.....	D. C....	1224 13th Street.
Olberg, Charles Real. . . . .	Minn...	1919 13th Street.
Pack, Samuel Bernard.....	Pa.. ...	1218 H Street.
Parsons, James L., Jr.....	D. C ...	322 10th Street, S. E.
Pierson, William Thomas, Jr..	Fla.....	315 5th Street, S. E.
Pistorio, Irene Mabel... ..	D. C....	626 B Street, S. W.
Raber, Katherine M.....	Ohio ...	1300 Lydecker Ave.
Reat, Samuel C. ....	Ill.....	1318 L Street.
Redington, Richmond B. ....	D. C....	1749 Q Street.
Regan, Ralston B.....	Miss....	1206 G Street.

Name.	State.	Address.
Roberts, Edwin E.....	D. C....	621 East Capitol St. M. D., National University.
Rose, Frank William.....	Ind.....	421 1st Street, N. E.
Saegmuller, John Leonard.....	Va.....	134 Md. Ave., S. W.
Schooley, Charles H.....	Colo....	943 R Street.
Scott, Walter Armitage..	Ill.....	Patent Office.
Sensner, George H.....	D. C....	2936 15th Street.
Shinn, John Brognard.....	D. C....	1751 Madison Street.
Shreve, Prentiss A.....	Va.....	129 Carroll St., S. E.
Siewers, W. Ledoux.....	N. C....	1021 Vermont Ave.
Smith, Roger G.....	D. C....	314 A Street, N. E.
Snider, Murray F.....	Ohio ...	38 Florida Avenue.
Stabler, Harold B..	Md.....	1321 G Street.
Stenger, Robert Cunningham..	Pa.....	
Stephens, Gilbert Haven	Ill.....	1830 G Street.
Stuckey, Katharine Pearl.....	Kan....	817 15th Street.
Swygert, George H.....	S. C....	924 Mass. Ave.
Taggart, Giles Russell.....	N. J....	58½ Bates Street.
Thompson, Edward Cyrus.....	Iowa ...	1312 8th Street.
Thompson, Wilford Ashford..	Iowa ...	1312 8th Street.
Thurston, Royal A.....	Ohio....	1306 O Street.
Topping, D. Le Roy.....	N. Y....	1913 Pa. Avenue.
Triepel, Mrs. Emma M. V.....	N. C....	1731 F Street.
Warner, George Littleton.....	Ohio ...	1514 Q Street.
Watts, George A.....	D. C....	412 2d Street.
Weer, Charles Raymond.....	Ohio ...	225½ 13th St., S. W.
Weer, Edward Leroy...	Ohio ...	225½ 13th St., S. W.
Wight, Frank Clinton.....	Maine..	417 Q Street.
Wooster, Walter Mallery.....	Conn...	1443 Q Street.

*Special Students.*

Name.	State.	Address.
Adams, Arthur B.....	Md.....	Treasury Departm't.
Ailes, Eugene E.....	Ohio ...	951 25th Street.
Alford, George H. ....	Miss....	620 I Street.
Allen, Fanny May..	Md.....	621 Duke Street, Alexandria, Va.
Ashford, George H.....	Miss....	620 I Street.
Atwell, H. J.....	Va.....	121 6th Street, N. E.



Name.	State.	Address.
Baker, Charles M.....	Mass...	Hotel Buckingham.
Baker, W. H.....	D. C....	219 3d Street.
Baldwin, George E.....	D. C....	219 3d Street.
Ballard, Walter E.....	D. C....	621 Florida Avenue.
Ballentine, Henry L.....	D. C....	1408 Hopkins Street.
Barnes, Mary A.....	D. C....	216 Seaton St., N. E.
Barton, Harry.....	D. C....	508½ 13th Street.
Bennett, A. A.....	Minn...	House of Reps.
Bogan, Samuel W.....	D. C....	421 G Street.
Boynton, Frances L.....	Minn...	1620 15th Street.
Brandt, Clara M. T.....	D. C....	945 Florida Avenue.
Brearley, James A.....	D. C....	306 10th Street, S. E.
Brockett, Paul.....	Ill.....	Smithsonian Inst'n.
Brott, Robert.....	D. C....	1829 Oregon Avenue.
Brown, Archibald W., B. S ...	Md.....	1718 9th Street.
Bryan, R. W.....	Pa ....	18th and R Streets.
Buell, Herbert L.....	N. Y....	1701 V Street.
Butts, Heber.....	Mo.....	822 8th Street.
Carpenter, Erna .....	D. C....	1314 Columbia Road.
Cole, Rebecca J., M. D.....	Pa... ..	2458 8th Street.
Corcoran, Richard P.....	Ill.....	816 13th Street.
Cross, Elizabeth W.....	D. C....	1908 F Street.
Crowell, Harry M.....	D. C....	2508 K Street.
Davis, George H.....	Mass....	1328 Columbia Ave.
Davis, Sheldon G.....	D. C....	607 13th Street.
Day, Ellen L.....	D. C....	623 Fla. Ave., N. E.
Day, Herbert E. . . . .	D. C....	Kendall Green.
Denny, Susie W.....	Va.....	1341 Q Street.
Dewees, Emma L. ....	Pa.....	201 East Capitol St.
De Wolfe, Madeleine B.....	N. Y....	1323 T Street.
Doster-Cooke, Mrs. Lenore....	Kans. ..	630 I Street.
Douglas, Annie E.....	Md.....	309 11th Street, S. W.
Ewell, Mrs. Alice Priest.....	Mass....	1804 S Street.
Faison, Elinor Hall.. . . .	N. C....	1611 Riggs Place
Falconer, Bolivar Lang, M. D..	Texas...	824 12th Street, N. E.
Fellows, Harriet A.....	Conn...	1510 Caroline Street.
Fields, S. Helen.....	Pa.....	129 6th Street, S. E.
Finch, Edward B.....	D. C....	212 N. J. Avenue.
Flournoy, B. C.....	D. C....	1129 14th Street.
Flournoy, Parke P., Jr.....	Md.....	Treasury Departm't.

Name.	State.	Address.
Foerster, Max F.....	D. C....	1914 16th Street.
Foley, Thomas M.....	D. C....	934 22d Street.
Gaines, Ada Shelton.....	Ky.....	Brookland, D. C.
Garnier, Madeline A.....	Pa.....	1829 Oregon Avenue.
Garrison, Carl L.....	Ill.....	1300 Lydecker Ave.
Gibson, Irene.....	Mo.....	1320 Corcoran Street.
Gideon, Carl C.....	Va.....	Ballston, Va.
Gies, Mrs. Johanna Henrietta..	D. C....	Warder Building.
Gould, Ezra.....	D. C....	1703 N. Y. Avenue.
Grant, Wilbur H.....	Ill.....	2905 14th Street.
Green, G. Emery.....	Mass....	1123 17th Street.
Greer, Edwin J.....	Mich....	1601 31st Street.
Griggs, Alice.....	N. Y....	939 R. I. Avenue.
Hadsall, Joseph C.....	W. Va..	1464 R. I. Avenue.
Hance, Eleanor W.....	Va.....	Cherrydale, Va.
Haney, Lewis Tussler.....	Va.. ...	St. Elmo, Va.
Hardestier, David....	D. C....	529 12th Street, S. E.
Havell, Thomas C.....	Tenn....	1235 B Street, S. E.
Hayt, Rosina E.....	Pa.....	128 A Street, N. E.
Heard, Florence M.....	D. C....	508 M Street.
Holmes, Kirk.....	Minn....	1502 H Street.
Hopkins, Matthew Smith.....	Md.....	1318 I Street.
Horton, Eugene C.....	Pa.....	Treasury Departm't.
Jacobs, Emma Suter.....	D. C....	1543 9th Street.
Jerdone, Francis, Jr.....	Va.. ...	227 E. Capitol Street.
Jones, A. Sidney.....	N. C ...	10 Seaton Street, N.E.
Jullien, Caroline.....	D. C....	Brookland, D. C.
Karch, Albert F.....	Ill.....	625 K Street.
Karus, W. Arthur.....	Iowa....	11½ Grant Place.
Kavanaugh, Annie.....	Wis....	1925 I Street.
Klakring, Alfred.....	D. C....	1137 N. J. Avenue.
Kramer, Stephen E....	Ga.....	1315 Q Street.
Lane, Bernard H.....	Mass....	2460 6th Street.
Lee, Walter H.....	D. C....	Anacostia, D. C.
Lerch, Alice.....	D. C....	1448 R. I. Avenue.
Levering, Jennie E.....	Tenn....	1435 Chapin Street.
Lewers, Albert M.....	Nev....	111 3d Street, N. E.
Lewis, Noble.....	D. C....	515 12th Street.
Lillie, Lottie J.....	Mich....	1121 10th Street.
Lowell, Walter R.....	D. C....	1819 Q Street.

Name.	State.	Address.
Lundy, W. Don.....	D. C....	808 N. C. Ave., S. E.
Madeira, Julia B .....	D. C....	1511 13th Street.
Mason, Mary M.* .....	Ill.....	1421 Chapin Street.
Matthews, Sallie T.....	N. J....	1422 N Street.
McBrier, Mrs. Elizabeth. ....	Cal. ....	201 C Street.
McCowan, Edwin B.....	Idaho...	1120 N. Y. Avenue.
Merrillat, Margaret J.....	D. C....	2512 University Pl.
Meyer, H. A.....	D. C....	211 East Capitol St.
Miner, Charles A.....	Mich...	601 18th Street.
Mitchell, Allis Fraem.. ....	Md. ....	2217 M Street.
Mixon, Ada. ....	Ark....	809 H Street.
Moncure, Paul H.....	Va.. ...	305 B Street, N. E.
Morgan, J. Maynard.....	D. C....	1828 H Street.
Mueden, Emma.....	N. Y...	437 M Street.
Mueden, Pauline.....	N. Y...	437 M Street.
Murphy, Fred V.....	Ill.....	908 L Street.
Nesbit, Donald.....	Va.....	5th Auditor's Office.
Noyes, Edward R. ....	D. C....	500 Md. Ave., S. W.
Oberly, Beatrice C. ....	Ill.....	629 Md. Ave., N. E.
O'Donoghue, Mrs. Marian Longfellow.....	Mass....	1309 Kenesaw Ave.
Orth, Henry, Jr. ....	D. C....	1011 L Street.
M. E., 1893, Lehigh Univer- sity.		
Parker, Joseph S.....	D. C....	1530 14th Street.
Patrick, George Edward.....	Iowa ...	Dep't of Agriculture.
B. S., 1873; M. S., 1874, Cor- nell University.		
Pierson, W. P.....	Ala. ....	148 A Street, N. E.
Rhodes, Thomas A., Jr.. ....	D. C....	Landon, D. C.
Romeyn, Nina.....	D. C....	714 20th Street.
Russ, Arthur B.....	Maine..	9 9th Street, S. E.
Russell, Arthur L.....	Texas ..	1349 Md. Ave., N. E.
Russell, William.....	D. C....	Treasury Depart'mt.
Sargent, R. H.....	Maine..	1728 Columbia Road.
Saxton, Elizabeth W.....	D. C....	1300 Columbia Road.
Schayer, Claire Marjory.....	D. C....	3435 Holmead Ave.
Scriver, Mrs. Delia V.....	N. Y....	1307 K Street.
Sheiry, Dillon .....	D. C....	132 F Street, N. E.
Sillers, Frederick .....	D. C....	809 21st Street.

Name.	State.	Address.
Simpson, W. W.....	D. C....	130 11th Street, S. E.
Sipe, Susan B. ....	D. C....	600 Mass. Avenue.
Smith, Marian.....	D. C....	1546 Howard Avenue.
Smith, William G.....	Minn...	1360 B Street, S. W.
Stauffer, Henry E.....	Del.....	2407 M Street.
Stevenson, Mrs. Stella Lee.....	D. C....	917 16th Street.
Steward, W. G.....	La.....	810 11th Street.
Stickney, Rosamond Kendall..	D. C....	607 M Street.
Stutz, Minnie Marie.....	D. C....	1507 R. I. Avenue.
Sydnor, Thomas Young.....	Pa.....	1202 K Street.
Sypher, Katharine.....	D. C....	2341 18th Street.
Tasker, Arthur M. ....	D. C....	122 Md. Ave., N. E.
Tenney, Walter L.....	N. Y....	1924 Pa. Avenue.
Tew, Albert B.....	D. C....	Anacostia, D. C.
Thatcher, Marion.....	Mich....	Stratford Hotel.
Thompson, John A.....	D. C....	1720 H Street.
Thorne, George.....	D. C....	120 6th Street, N. E.
Thorneley, Walter C. ....	England.	817 12th Street.
Tilton, Emma Evangeline.....	D. C....	220 2d Street, N. E.
Todd, Ruth H.....	D. C....	1124 5th Street.
Tracy, Laura Louise.....	N. Y....	1462 Binney Street.
Turner, Emma Harper.....	Ind.....	1507 R. I. Avenue.
Twitchell, Mrs. Mayville W....	N. Y ...	809 21st Street.
Underwood, Norman.....	D. C....	1407 10th Street.
Warner, Marjorie Fleming.....	Iowa ...	20 I Street.
Wharton, Georgia E.....	Va. ....	224 11th St., S. W.
Wharton, John J., Jr.....	Va. ....	224 11th St., S. W.
Wheeler, Harrie T.....	D. C....	1008 B Street, S. W.
White, Marian.....	Iowa....	330 T Street.
Wilson, Adelaide. ....	Ga.....	817 15th Street.
Wing, David Laforest .....	Maine..	513 4th Street.
Wollant, Gregory de .....	Russia..	1729 21st Street.

Candidates for degrees ..... 99

Special students..... 153

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Total ..... 252

# THE SCHOOL OF GRADUATE STUDIES.

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## FACULTY.

\* REV. BENAIAH L. WHITMAN, D. D., LL. D.,  
*President.*

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Professor of Neurology.

THEODORE N. GILL, PH. D.,  
Professor of Zoölogy.

CLEVELAND ABBE, A. M., LL. D.,  
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,  
Professor of German and of Continental History.

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\* Resigned March 31, 1900.

REV. JAMES MACBRIDE STERRETT, D. D.,

Professor of Philosophy.

EDGAR FRISBY, A. M.,

Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,

Professor of Philosophy.

EMIL A. DE SCHWEINITZ, PH. D.,

Professor of Bio-Chemistry.

FRANK W. CLARKE, S. D.,

Professor of Mineral Chemistry.

HARVEY W. WILEY, PH. D.,

Professor of Agricultural Chemistry.

REV. FRANK H. BIGELOW, D. D.,

Professor of Solar Physics.

GEORGE P. MERRILL, PH. D.,

Professor of Geology.

HOWARD L. HODGKINS, PH. D.,

Professor of Mathematics.

EDWARD FARQUHAR, PH. D.,

Professor of Ancient and Church History.

LOUIS AMATEIS,

Professor of Fine Arts as Applied to Architecture.

FRANK A. WOLFF, PH. D.,

Professor of Electrical Engineering.

F. LAMSON-SCRIBNER, B. Sc.,

Professor of Botany.

JOSEPH C. HORNBLOWER,

Professor of Architecture.

C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

MARATHON MONTROSE RAMSEY, A. M.,  
Professor of Romance Languages.

ANDREW F. CRAVEN, PH. D.,  
Professor of Political Science.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature and Secretary of the Faculty.

CHARLES C. SWISHER, PH. D.,  
Professor of American and English History.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English.

GUSTAV AYERS, M. E.,  
Professor of Mechanical Engineering.

HERBERT LOUIS RICE, M. S.,  
Professor of Astronomy.

CARROLL D. WRIGHT, LL. D.,  
Professor of Economics.

MITCHELL CARROLL, PH. D.,  
Acting Professor of Latin and Classical Archeology.

HENRY A. PRESSEY, B. S.,  
Acting Professor of Civil Engineering.

MAX WEST, PH. D.,  
Associate Professor of Economics.

OTIS T. MASON, PH. D., LL. D.,  
Lecturer on Anthropology.

## BOARD OF DIRECTORS OF UNIVERSITY STUDIES.

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REV. FRANK H. BIGELOW, D. D., Professor of Solar Physics.

CHARLES C. SWISHER, PH. D., Professor of American and English History.

WILLIAM ALLEN WILBUR, A. M., Professor of English.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The seventh session begins Wednesday, September 26, 1900.

The School is opened each year with a public address by a member of the Faculty.

## DEGREES.

The degrees of Master of Arts (M. A.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the School of Graduate Studies under such regulations as may be established from time to time by the Board of Directors; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors of University Studies. The conditions to be satisfied by candidates will be found on page 130 *et seq.*



## COURSES OF STUDY.

The following courses are offered to students in the School of Graduate Studies. Candidates for the degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

## ANTHROPOLOGY.

DR. MASON.

Candidates for degrees in this department are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. They should also have pursued a course in psychology, with especial reference to the study of physiology.

The special studies of the department comprise the following courses :

1. Study of the races of man.
2. The history of culture (*Kulturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.
3. The history of the past as revealed in the sciences of archæology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Haeckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as texts, with readings in the journals of the Anthropological societies.

## ARCHÆOLOGY: CLASSICAL.

PROFESSOR CARROLL.

The School of Graduate Studies is prepared to furnish instruction in certain branches of Greek and Roman Archæology, making use of the excellent opportunities which Washington affords. The Corcoran Gallery of Art has a large collection of plaster casts of Greek and Roman sculpture. The Halls of the Ancients offer considerable illustrative material for the study of classical architecture and art and of Roman private life, and the National Museum has various collections useful in the study of antiquity.

The following courses of study are offered:

1. Introduction to Classical Archæology, an elementary course in Greek and Roman architecture and sculpture and Greek vases, and the bibliography of archæology.
2. Topography of Athens. Reading and study of Pausanias' Description of Greece, Bk. I, ec. 1-30, together with a course of lectures on the Topography and Monuments of Ancient Athens.
3. History of Greek Sculpture. A systematic study of the various periods of Greek Sculpture, illustrated by photographs, lantern slides, and the casts of the Corcoran Gallery of Art.
4. The Private Life of the Romans. The subject of Roman life will be considered in the light of existing material remains, as reproduced by photographs, engravings, casts, and the Pompeiian house in the Halls of the Ancients.

## ARCHITECTURE.

PROFESSOR HORNBLOWER.

PROFESSOR AMATEIS.

Classical styles; Interior architecture and decoration; Construction of buildings.

The thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

## ASTRONOMY.

PROFESSOR FRISBY.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this department for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads :

1. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method, *Abhandlungen, Erster Band*. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' *Theoria Motûs*. Books of reference, as above.

3. An outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson.

4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen, Zweiter Band und Dritter Band*. Books of reference, as above. The method of the variation of the six elements will be first taught. The other methods of Hansen and of rectangular coordinates will follow if needed.

5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

6. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*.

## PROFESSOR RICE.

7. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers.

8. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brünnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy (such as Watson's) as are not especially concerned with the determination of orbits.

9. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulæ and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned with the tabular values of functions, for those desiring a special acquaintance with this fundamental and important subject.

10. A reading course in the History of Astronomy. Such works as Grant's History of Physical Astronomy, Clerke's History of Astronomy during the Nineteenth Century, etc., will be used as texts.

## ASTRO-PHYSICS.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

## BIBLICAL LITERATURE AND SEMITIC LANGUAGES.

PROFESSOR POLLARD.

Courses in this department are intended (1) for those who wish to specialize in Biblical and Semitic Studies; (2) students of language, that they may be better furnished with data for the study of comparative philology, phonetic laws, and the philosophy of language; (3) students of ancient history and archæology; (4) students of ethics and theology; (5) those seeking more liberal culture.

1. Studies in the Hebrew Prophets. Lectures on the nature of prophecy; reading, with historical side lights.

2. Hebrew Poetry—its form and contents. Its national, universal, and Messianic features. Readings in the Psalms.

3. Investigations in Hebrew History and Biblical Archæology. As guide, McCurdy's "History, Prophecy, and the Monuments;" Keil's Biblical Archæology.

4. Studies in the Apostolic Age. Reference to Ramsay, McGiffert, and others.

5. Hebrew. Syntax and selected readings from the Books of Samuel.

6. The Cognate Semitic Languages. (a) Aramaic, Grammar and readings in the books of Daniel and Ezra; (b) Arabic, Lansing's Manual and readings from the Koran; (c) Assyrian, Grammar and reading of selected cuneiform texts.

7. New Testament Greek. With consideration of Hebraic influence upon the "Common Dialect," and divergence from classic usage. Selected readings from the new Testament and from the Septuagint.

**ENGINEERING—CIVIL.****PROFESSOR PRESSEY.**

1. Water Supply. Details of water works. Study of surface and underground waters as sources of supply, with special reference to methods of purification.
2. Sewerage. Details of sewerage systems, with special reference to methods of sewage disposal.
3. Hydrology. Flow of rivers, rainfall, and the effects of topography, forests, etc., upon the run-off of watersheds.
4. Irrigation.
5. Thesis, the subject of which is to be selected by the student and approved by the Professor of Civil Engineering.

**ENGINEERING—ELECTRICAL.****PROFESSOR WOLFF.**

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year, embracing the following studies:

1. Advanced Laboratory work.
2. Design of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, or some special research in applied electricity.

Students are recommended to take also Mechanical Engineering, Advanced Physics, Higher Mathematics, German, French, and Chemistry.

**ENGINEERING—MECHANICAL.****PROFESSOR AYRES.**

The course of study leading to the degree of Mechanical Engineer includes the following subjects: Steam-engine, Zeuner's diagrams, gas engine, and mechanics of machinery. In addition, the students are required to do individual work in taking indicator diagrams and making engine and boiler tests. The following works indicate the range of subjects:

Riggs' Steam-engine; Zeuner's Diagrams; Clerk's Gas Engine.

Weisbach-Hermann's Mechanics of Machinery: Hoisting machinery, accumulators, cranes, locomotives, etc. Day's Indicator Diagrams and Engine and Boiler Testing. Weisbach-Hermann's Mechanics of Machinery: Pumps, pumping engines, blowing engines, compressors, and fans.

**ENGLISH.****PROFESSOR WILBUR.**

The courses offered are given according to the needs of students actually in attendance. The work is not, as a rule, conducted in classes, but through personal conference and individual research. A satisfactory thesis is required at the completion of each course of graduate study.

1. The Elements of Style. (1) Sound: An investigation of the phonetic elements of words as a distinct factor in style. (2) Words: The sources and growth of the English vocabulary; the percentage of native words in the English of different writers; comparative values of the native and the foreign elements; the significance of words. (3) Sentences: The history of sentence-length and sentence-form in English prose. (4) Paragraphs: The history of the English paragraph. (5) Figures of Speech. (6) Forms of Discourse.

2. English Literary Criticism. (1) A study of the principles of literary criticism, with exercises in the criticism of literature of varying types. (2) The history of English literary criticism from the sixteenth century.

3. **Literary History of England.** A survey of the whole field, and a critical study of some phase of literary development. The following authors are read: Taine, Ten Brink, Brooke, Saintsbury, Gosse, Stedman.

4. **Literary History of America.** A survey of the whole field, and a critical study of some phase of literary development. The following authors are read: Tyler, Richardson, Stedman, Bates, Vedder, and the volumes in the "American Men of Letters" series.

5. **English Romanticism.** The history of English romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

6. **Marlowe.** The works of Christopher Marlowe, with studies in language, versification, dramatic art, influence, and interpretation.

7. **Shakespeare.** The works of Shakespeare, with inductive studies in phases of dramatic art, and in interpretation.

8. **Tennyson.** A comprehensive study of Tennyson's works; his literary characteristics; his ethical and religious teaching.

## GEOLOGY.

PROFESSOR MERRILL.

This department offers a course of advanced study in Geology, both systematic and applied.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, are from time to time indicated by the instructor.



During the second year the student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. The course is modified to suit individual cases, in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

## GERMAN.

PROFESSOR SCHOENFELD.

1. The Literature of the Sixteenth Century. Braune's *Neudrucke Deutscher Literaturwerke*. Humanism and Reformation, with special reference to Italian and French influences. Historical basis after Voigt, Janssen, Ranke, Burckhart, L. Geiger.

2. Literary awakening in Germany in the time of Frederick the Great; critical study of the literary centers—Leipzig, Zürich, Berlin. The Storm and Stress Period and the youthful works of Schiller and Goethe; critical investigation of Klopstock's Odes; the first three cantos of *Messias*.

3. History of the Second Classical Period. Lessing's *Laokoon*, *Dramaturgie*, *Literaturbriefe*: A study of German Critique. Detailed investigation into Schiller's and Goethe's works. Literary Germany at the death of Goethe (1832).

4. History of German Syntax.

## GREEK.

PROFESSOR HUNTINGTON.

For the Master's Degree one of the following courses is offered :

1. Herodotus and Thucydides.

2. Homer (parts of the *Iliad* and *Odyssey* not read in the undergraduate course) and the Lyric Poets.

3. The Attic Orators.

For the degree of Doctor of Philosophy two of the following courses are offered :

4. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.

5. The Tragic Poets.

6. Plato or Aristotle.

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also (a) in Greek Composition ; (b) in the Grammar and Philosophy of the Language ; (c) in the History of Literature ; (d) in Greek History and Archæology. They are also required to present a thesis on some subject connected with Greek study.

## HISTORY—AMERICAN.

PROFESSOR SWISHER.

1. Era of Exploration and Discovery. Theories respecting early settlements and aboriginal population of the North American Continent based upon Archæology, Ethnology, and Tradition.

2. Colonial History. Social, territorial, and commercial conditions of the English Colonists. Legal and political status of the Colonies as conceived by Parliament conflicts with the spirit of Independence developed by the environment of the Colonists. Union consummated through rebellion ; Independence through revolution.

3. Constitutional History of the United States :

(a.) The history of the Constitutional principle traced through the early Colonial charters and "the Articles of Confederation" until finally formulated in the Constitution of 1789.

(b.) Construction of the Constitution developed under party issues from the first administration of Washington through the period of division and reconstruction.

4. The History of American Diplomacy. This course undertakes a careful study from original sources of the more important international controversies to which the United States has been a party, from the diplomacy of the Revolution to the report of the Venezuela Commission under President Cleveland.

5. The Rise and Fall of the Slave Power. Slavery as a factor in Colonial history; impetus given to the system by the Constitution of 1789; period of annexation and conquest; the causes and consequences of the Mexican war.

6. The History of the American people from 1765 to 1895.

## HISTORY—ANCIENT AND CHURCH.

PROFESSOR FARQUHAR.

1. Bible History. Frequent references to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors carefully considered, and the relations of Athenian to modern civilization pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors consulted, and the transition from the ancient to the modern civilization followed.

4. History of Christianity. Study of the development of the Church, and its relation to the general progress of mankind. Frequent references to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

## HISTORY—CONTINENTAL.

PROFESSOR SCHOENFELD.

1. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House.

(Selections from the historical sources will be read and interpreted.)

2. The Holy Roman Empire from Rudolph of Hapsburg till the death of Maximilian I (1519), with special reference to *Kulturgeschichte*, and the first attempts at Church reform.

3. History of the Renaissance and Reformation.

Modern History is reserved for the Academic year 1900-1901. Special courses may, however, be arranged after consultation with graduate students.

## HISTORY—ENGLISH.

PROFESSOR SWISHER.

1. English Constitutional History. This course seeks to explain the present working of the English political system from a survey of the whole field of English history. It reviews in detail—

(a.) Early Saxon institutions as they reappear successively after Norman and Tudor absolutism and finally assert themselves under the later Stuarts.

(b.) Party government as developed under the Whig oligarchy of the Revolution and during the reign of George III until the final triumph of popular government by the Reform Act of 1831.

2. History of English Foreign Policy. England as a continental power; the policy of Wolsey as realized under Cromwell and William of Orange; struggle for the balance of power transferred to the seas; England and the Eastern question.

3. England as an Empire. Evolution of the imperial idea; the foundation of the Empire from the Conquest of Jamaica to the Battle of Trafalgar; the Empire as Modified by American History; the Political Situation in Canada, Australia, and South Africa.

4. The English in India. Condition of the peninsula during the Mogul Empire; establishment of British Supremacy; the

Presidencies and the Native States; strength and weakness of England's position in the Far East.

5. England during the Nineteenth Century. A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation are arranged at the weekly meetings of the seminars of American and English history.

## LATIN.

### PROFESSOR CARROLL.

The aim of the graduate instruction in Latin is twofold:

(1) The attainment of a wider and more accurate knowledge of the Latin language and literature than can be acquired in the ordinary college course, and (2) special training in the methods of scientific research.

To serve these ends the Latin Seminary has been organized, composed of all the graduate students in the department. Each year some one author or branch of literature is made the center of study. Interpretations of the text under consideration are prepared by the members, and papers are read by them containing the results of special study of philological or literary topics. Furthermore, wide and systematic reading of Latin authors is carried on under personal supervision, and special courses of lectures are given from time to time on themes in Roman life and literature.

The center of study during the present session has been the rhetorical works of Cicero. The following courses are offered:

I. Horace and Roman Satire.

II. The Roman Epic.

III. The Roman Historians, especially Tacitus.

The Librarian of Congress has expressed a willingness to provide such books as are necessary for the effective prosecution of the work.

## MATHEMATICS—PURE.

PROFESSOR GORE.

1. Higher Plane Curves. Modern Higher Algebra.

2. Mathematical Reading. Carr's Synopsis of Pure Mathematics; Láska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.

3. Advanced Integral Calculus; Theory of Equations.

4. Functions. General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, Théorie des Fonctions Abéliennes.

PROFESSOR HODGKINS.

5. Differential Equations.

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This is supplemented by lectures and by the study of Forsyth's Differential Equations (two hours a week).

6. Determinants.

The first part of the year is given to the mastery of some elementary book on Determinants, such as that by Weld. This is followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

## MATHEMATICS—APPLIED.

ASSISTANT PROFESSOR —.

1. Geometry of Position, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.

2. Graphic Statics. This science may be studied with either of two objects in view:

(a.) As a part of Applied Mechanics.

(b.) As a part of Analytical Mechanics, based on geometry of position.

3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

4. Analytic Mechanics: Minchin, Price, Lagrange, Jacobi, Hamilton.

5. Spherical Harmonics and allied functions, with applications to mathematical physics: Todhunter, Ferrers, Thomson and Tait, Maxwell, Rayleigh, Heine.

6. Hydrodynamics and Tides: Lamb, Lagrange, Laplace, Airy, Thomson, Ferrel, Darwin.

## METEOROLOGY.

PROFESSOR ABBE.

1. Experimental and Laboratory Work in Meteorology. The lectures will treat of the theories of instruments; the laws of meteorological phenomena, so far as they are susceptible of laboratory experiment; the differences in methods of reduction and publication.

2. Practical Meteorology. The lectures will treat of cartography, daily weather charts, methods of predicting the weather for a few days, long-range predictions for seasons, methods of verification, and the climates of past geological ages.

3. Physical and Theoretical Meteorology. The lectures will sketch the present state of our knowledge of atmospheric phenomena as a problem in thermodynamics and hydrodynamics. An extensive course of reading and private study will be marked out for the pupil, and his thesis for the degree of Ph. D. must be in the field of physical meteorology.

## NEUROLOGY.

PROFESSOR SHUTE.

This course includes laboratory work, readings, and recitations. The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the Central Nervous System in Man. The growth of the brain and its physical characters as related to intelligence is investigated. The histology and embryology of the Central Nervous System and the Sense Organs are studied. A history of the guiding conceptions in Neurology is to be acquired.

The course is designed to inculcate a sound knowledge of the architecture and functions of the Nervous System of Man for the use of students of Anatomy and those contemplating a course in Medicine and Psychology.

## PHILOSOPHY.

PROFESSOR STERRETT.

1. Aristotle's Ethics and Politics.
2. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.
3. The Ethics of Kant and Hegel's *Rechtsphilosophie*.
4. Kant's Critique of Pure Reason.
5. Ethics of Kant's Critique of the Practical Reason, and Green's Prolegomena to Ethics.
6. Kant's Critique of the Practical Reason, and Critique of the Judgment.
7. Hegel's *Logik* and *Philosophie des Geistes*.
8. The Philosophy of Religion: Hegel and Pfleiderer.
9. Philosophy of History.
10. The History of Philosophy.

Other desired courses in Ethics and Philosophy may be arranged for with the Professor.



## PROFESSOR HARRIS.

Dr. Harris will coöperate with Dr. Sterrett in carrying out additional courses in connection with Courses 9 and 10.

## POLITICAL SCIENCE.

## PROFESSOR CRAVEN.

1. A comparative study of the political institutions of the leading nations of the world, ancient and modern; the *history* of politics.

2. Political Science. An analytical study of the nature of the State and of public administration; the life and conduct of the State; the *art* of politics.

3. Political Philosophy. Speculation as to the origin of government; its ethical bases and the ideal form of the perfect State; the *theory* of politics.

## ROMANCE LANGUAGES.

## PROFESSOR RAMSEY.

*French.*

The following three courses are offered in French literature, dealing with the three most prominent epochs of its history prior to the Revolution:

1. Francis I (1515-'47) and the Renaissance.
2. Henry IV (1589-1610).
3. Louis XIV (1643-1715).

In each of these courses the condition of the country at the period in question is studied (largely from French sources), and the important writers are made the subjects of special investigation, the effort throughout being to correlate details and to seek a general tendency of the literary movement.

#### 4. French Romanticism.

A study of the Romantic movement in France, from its earliest manifestations to the Realist reaction, based upon the treatises of Brunetière, Albert, Pellissier, Gautier, and Meyer.

#### 5. Modern French Syntax and Lexicology.

This course takes up the language at the point where the grammatical text-books leave it. The broader principles of the use and arrangement of words, the expansion and change of their meaning, and the production of new words from material already existing in the language are illustrated by a textual study of the modern masters of French style.

### *Spanish.*

#### 1. Spanish Literature of the Eighteenth Century.

A study of the revival of culture following the War of the Spanish Succession; a general acquaintance with the culmination of Spanish literature in the Golden Era, and the subsequent decline is an implied prerequisite.

#### 2. Spanish Poets of the First Half of the Nineteenth Century.

While this course is made as comprehensive as possible, it naturally centers upon Quintana, Espronceda, Angel de Saavedra, Zorrilla, and Campoamor.

#### 3. Contemporary Spanish Fiction.

A comparative study of Valera, Pereda, Pérez Galdós, and Palacio Vadés, involving the tenets of modern literary criticism in Spain.

### SOLAR PHYSICS.

PROFESSOR BIGELOW.

Graduate studies in Solar Physics in its relation to Meteorology.

1. Solar Magnetism. The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for the recent development of the theory that

the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. **Cosmical Electricity and Magnetism.** The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and ether wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. **Terrestrial Magnetism.** The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. **Meteorology.** The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement will be made of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects.

The results of the International Cloud Survey of the upper air; a comparative study of the theories of dynamic meteorology; Bigelow's standard system of equations useful in meteorology; the gradients of pressure, temperature, and vapor tension as determined by cloud computations, balloon, and kite ascensions; these and related topics are included in this course.

## ZOÖLOGY.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

## REQUIREMENTS FOR DEGREES.

*The Masters' Degrees.*

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis.

*Engineering Degrees.*

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, or Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

*Doctors' Degrees.*

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates, they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in the study at this University of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the

results of original research in their major subject, which theses they shall be prepared to defend before a board of experts.

### PROCEDURE FOR ADMISSION.

Candidates for admission to this School must present the diplomas they hold, or certificates that they have received such diplomas, to the Dean of this School, and obtain from the Dean application blanks. When properly filled and signed these applications are submitted to the Board of Directors of University Studies for investigation, and the applicant is informed in writing of the action of the Board. When the applicant is informed that the Board of Directors of University Studies has admitted him to candidature for a degree he should present himself at once to the Registrar and matriculate. He should then present his receipt card and matriculation paper to the Dean for his signature, and also obtain the signatures of each of the professors with whom he is to study during the year upon his matriculation paper. When this paper has been thus executed the student must sign it and return it to the Registrar.

### EXPENSES.

Matriculation fee of candidates for any degree conferred.	\$10 00
Annual fee for instruction and direction of candidates for Master's degrees.....	30 00
Annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree.....	90 00
Diploma fee.....	10 00

Where laboratory courses are taken, an additional fee is required.

Students proposing to withdraw from the School of Graduate Studies will inform the Registrar to that effect. In the absence of such notification no claims for exemption from fees will be allowed.

### COMMENCEMENT.

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

## THESES.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official thesis paper can be purchased from the Registrar of the University.

All theses must be presented to the Dean not later than May 11.

No thesis for the degree of Doctor of Philosophy shall be submitted to the Faculty until it shall have been approved by the professor having supervision over the Major topic, and also by a co-referee, to be appointed from among the Faculty by the Dean.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation, and to present fifty copies of the printed thesis to the University, through the Dean, to be distributed among learned institutions.

## FINAL EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

“Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of the commencement.”

“No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer.”

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

IN ATTENDANCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Helen Virginia Banskett .....	Romance Languages.	South Carolina. ....	1408 S Street, N. W.
Harry Tennyson Domer.....	American History...	District of Columbia..	738 11th Street, N. W.
Frank Dexter Fletcher.....	Romance Languages.	New York.....	1324 Q Street, N. W.
Ella May Ford.....	Romance Languages and English.	Virginia.....	47 R Street, N. E.
Annie Johnstone Lewis.....	Romance Languages.	North Carolina.....	1507 Vt. Avenue, N.W.
Josephine Bettes Parkman.....	Philosophy.....	Massachusetts.....	2519 Pa. Avenue, N.W.
Edward Elliott Richardson.....	Neurology.....	Vermont. . . . .	400 7th Street, S. W.
M. D., 1895, Columbian University.			
Lila Taylor.....	Mathematics.....	District of Columbia..	1741 Columbia Road.
B. S., 1893, Wellesley College;			
M. A., 1899, Columbian University.			

FOR THE DEGREE OF CIVIL ENGINEER.

NAME.	RESIDENCE.	ADDRESS.
Eldridge Roger Boyle... B. S., 1899, Columbian University.	Maryland.....	1139 N. H. Ave., N. W.
Capt. Roy Bagley Hayes..... B. S., 1899, Columbian University.	Wisconsin.....	626 O Street, N. W.
Francis Renatus Weller..... B. S., 1899, Columbian University.	North Carolina.....	408 C Street, S. E.

FOR THE DEGREE OF ELECTRICAL ENGINEER.

NAME.	RESIDENCE.	ADDRESS.
John Phipps Alexander..... B. S., 1899, Columbian University.	New York.....	1017 14th Street, N. W.
Faust Frank Crampton ..... B. S., 1898, University of Michigan.	Michigan.....	Patent Office.
Robert Francis Portner..... B. S., 1899, Columbian University.	Virginia.....	1104 Vt. Avenue, N. W.



FOR THE DEGREE OF MECHANICAL ENGINEER.

NAME.	RESIDENCE.	ADDRESS.
Lt. Theodore Cornell Fenton, U. S. N..... Graduate, 1885, U. S. Naval Academy; LL. B., 1892, LL. M., 1893, Columbian University.	Pennsylvania...	1631 19th Street, N. W.
Ralph Brewster Marean..... B. S., 1899, Columbian University.	New York. ....	410 2d Street, N. E.
Edward Adams Muir..... B. S., 1897, Columbian University.	District of Columbia..	Ordnance Office, Navy Yard.

FOR THE DEGREE OF MASTER OF SCIENCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
David Holmes Blakelock..... B. S., 1899, Columbian University.	Chemistry.....	District of Columbia.	619 6th Street, S. W.
Harry Wallace Bowen..... B. S., 1893, Worcester Polytechnic Institute.	Electricity.....	Massachusetts.....	Room 87, U. S. Patent Office.
Archibald Webster Brown..... B. S., 1899, Columbian University.	Architecture.....	Maryland.....	1729 13th Street, N.W

## FOR THE DEGREE OF MASTER OF SCIENCE.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Louis Waterhouse Carter ..... B. S., 1896, South Dakota Agricultural College.	Botany.....	South Dakota.....	Takoma Park, D. C.
Anna Sarah Hazelton..... B. S., 1892, Columbian University.	Mathematics.....	District of Columbia.	1215 9th Street, N.W.
William Eldridge Hillyer..... B. S., 1899, Columbian University.	Chemistry .....	Florida.....	412 A Street, S. E.
Nevil Monroe Hopkins ..... B. S., 1899, Columbian University.	Chemistry .....	District of Columbia.	1730 I Street, N. W.
Alfred Emerson Jessup..... B. S., 1892, Lehigh University.	Chemistry.....	Maryland.....	Supervising Architect's Office, Treasury Department.
Herbert Harvey Kimball..... B. S., 1884, New Hampshire College of Agriculture and the Mechanic Arts.	Meteorology.....	New Hampshire....	U. S. Weather Bureau.
Edward Janney Sidwell Lupton. B. S., 1899, Columbian University.	Neurology.....	West Virginia.....	3044 14th Street, N.W.

Marcus Ward Lyon, Jr..... Ph. B., 1897, Brown University.	Zoölogy. ....	New Jersey.....	U. S. National Mu- seum.
Thomas Herbert Means ..... B. S., 1898, Columbian Univer- sity.	Geology .....	District of Columbia.	Brookland, D. C.
Robert Edward Lee Newberne... M. D., 1893, Georgetown Uni- versity; D. D. S., 1896, Ta- coma College of Dental Sur- gery.	Neurology.....	Texas .....	1453 14th Street, N.W.
Homer Edgar Nowlin..... B. S., 1892, Bethel College; M. D., 1896, Georgetown Uni- versity.	Chemistry.....	Tennessee .....	War Department.
Jesse Pawling, Jr..... A. B., 1888, A. M., 1893, Phila- delphia High School; B. S., 1893, Cornell University.	Astronomy ... ..	Pennsylvania.....	U. S. Coast and Geo- detic Survey.
Thomas Malcolm Price..... B. S., 1899, Maryland Agricul- tural College.	Chemistry.....	Maryland. ....	College Park, Mary- land.
Frank Owen Stetson..... B. S., 1888, Massachusetts In- stitute of Technology.	Spanish ..	Massachusetts.....	1802 R Street, N. W.

FOR THE DEGREE OF MASTER OF SCIENCE.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Alfred Henry Thiessen B. S., 1898, Cornell University.	German .....	New York .....	2017 I Street, N. W.
Mayville William Twitchell..... B. S., 1899, Columbian University.	Mineralogy.....	New York.....	809 21st Street, N. W.

FOR THE DEGREE OF MASTER OF ARTS.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
John Henry Altschu..... B. A., 1897, Columbian University.	American History. ....	District of Columbia	1334 G Street, N. W.
Dwight Wood Baker..... A. B., 1899, Brown University.	American History.....	Rhode Island.....	729 18th Street, N. W.
Elise Bradford .....	Latin.....	District of Columbia.	1522 P Street, N. W.
B. A., 1898, Columbian University.			
Reed Paige Clark.. .. B. A., 1898, Columbian University.	French.....	New Hampshire.. ..	1424 11th Street, N. W.

Lucy Webster Cummings.....	German .....	District of Columbia.	Howard University.
B. A., 1897, Wellesley College.			
Lida Draper .....	Latin.....	District of Columbia.	111 Maryland Avenue, N. E.
B. A., 1899, Columbian University.			
William Thomas Faulkner.....	Spanish ..	Mississippi .....	Office Auditor of Post Office Department.
B. S., 1898, Columbian University.			
Margaret Foster.....	French .....	Maine .....	St. Elizabeth, D. C.
A. B., 1896, Leland Stanford, Jr., University.			
Rev. Edward Darlington Johnson.	Biblical Literature .....	Pennsylvania..	2401 Pa. Avenue, N. W.
B. A., 1892, Maryland Agricultural College; Graduate, 1898, General Theological Seminary.			
James Edgar Hiatt.....	Spanish.....	Indiana.....	813 3d Street, N. W.
B. S., 1899, Columbian University.			
Robert Stockwell Hatcher.....	American History.....	Indiana .....	1140 Connecticut Ave., N. W.
1870, Dresden Gymnasia; 1881, Lycée de l'Ecluse, Paris.			
Frederick Charles Hicks.....	Economics.....	New York. ....	154 A Street, N. E.,
Ph. B., 1898, Colgate University.			

## FOR THE DEGREE OF MASTER OF ARTS.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Horace Leonard Jones..... A. B., 1899, Carson and Newman College.	Economics.....	Tennessee .....	813 12th Street, N. W.
Paca Kennedy..... B. A., 1899, Roanoke College.	English.....	West Virginia. ....	Theological Seminary, Virginia.
Ernest Pendleton Magruder..... B. A., 1895, Johns Hopkins University.	English....	Maryland.....	Collington, Prince George County, Maryland.
Rev. David Wallace Montgomery. A. B., 1889, Hastings College.	Biblical Literature.....	Virginia.....	Herndon, Virginia.
Rev. Ernest Moorhead Paddock.. A. B., 1894, University of Penn- sylvania; Graduate, 1897, Episcopal Theological School, Cambridge, Mass.	Philosophy.....	Pennsylvania.....	1723 A Street, N. W.
Perry Spencer Pearson..... A. B., 1898, Mercer University.	Philosophy.....	Georgia.....	1112 Tenth St., N. W.
Herbert Harry Powell..... Ph. B., 1899, Taylor University.	Biblical Literature.....	Virginia.....	Theological Seminary, Virginia.

Alvis Lemuel Rhoton.....	Mathematics.....	Kentucky.....	140 East Capitol St. A. B., 1899, Georgetown College.
Chas. Francis Phelps Richardson. A. B., 1896, Harvard University.	Continental History. ...	Massachusetts.....	Metropolitan Club.
Charles Kilbourne Robinson. ... B. S., 1897, Columbian University.	English History.....	New Jersey.....	1607 S Street, N. W.
Grace Coburn Smith..... A. B., 1893, Colby University.	German Literature.....	Maine.....	The Concord.
Albert Rhett Stuart..... B. A., 1898, Columbian University.	English.....	South Carolina.....	1226 15th Street, N. W.
Evander McIver Sweet, Jr..... B. A., 1895, Southwestern University.	English. ....	Texas .....	811 K Street, N. W.
Rev. Albert Norman Ward..... A. B., 1895, Western Maryland College.	English. ....	Maryland.....	23 8th Street, S. E.
Rev. Herbert Ferguson Williams. A. B., 1891, Richmond College.	Latin.....	Virginia.....	Vienna, Va.

FOR THE DEGREE OF MASTER OF ARTS.

NAME.	TOPIC.	RESIDENCE.	ADDRESS.
Hugh Williams..... B. A., 1896, Western Reserve University.	Romance Languages	Ohio.....	154 A Street, N. E.

FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Gustav Ayres..... M. E., 1889, Lehigh Univer- sity.	Major: Analytical Chem- istry; Minors: Or- ganic Chemistry; Mineralogy.	District of Columbia.	2017 Kalorama Ave., N. W.
Eugene Byrnes..... B. A., 1884, Michigan Univer- sity; LL. B., 1887; LL. M., 1888, Columbian University.	Major: Physical Chem- istry; Minors: Elec- tricity; Chemistry.	New York.....	Room 149, U. S. Patent Office.
Victor King Chestnut..... B. S., 1890, University of Cali- fornia.	Major: Plant Chemis- try; Minors: Organic Chemistry; Botany.	California.....	1104 P Street, N. W.



George Wetmore Colles.....	Major: Meteorology; Minors: Solar Physics; Applied Mathematics.	Massachusetts.....	930 T Street, N. W.
A. B., 1892, Yale University; Mech. E., 1894, Stevens In- stitute of Technology.			
Rev. Frank Leighton Day.....	Major: Ancient and Church History; Minors: Sociology; English.	Maryland.....	1302 30th Street, N. W.
B. A., 1891; M. A., 1896, Roa- noke College; B. D., 1895, Vanderbilt University.			
Marion Dorset.....	Major: Biochemistry; Minors: Pathology; Bacteriology.	Tennessee.....	1120 N. Y. Ave., N. W
B. S., 1893, University of Ten- nessee; M. D., 1896, Colum- bian University.			
Rev. Benjamin Alfred Dumm....	Major: Philosophy; Minors: Psychology; History of Philosophy.	Maryland.....	413 P Street, N. W.
B. A., 1886; M. A., 1889, West- ern Maryland College.			
Charles Russell Ely.....	Major: Chemistry; Mi- nors: Botany; Min- eralogy.	Maryland.....	Kendall Green.
A. B., 1891; A. M., 1897, Yale University; M. A., 1892, Gal- laudet College.			
Ernestine Fireman.....	Major: Chemistry; Mi- nors; Mineralogy; Botany.	Hungary.....	229 R Street N. E.
M. S., 1898, Columbian Uni- versity.			

# FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Percival Hall..... A. B., 1892, Harvard College; M. A., 1893, Gallaudet Col- lege; M. A., 1898, Columbian University.	Major: Pure Mathe- matics; Minors: Ap- plied Mathematics; Astronomy.	District of Columbia.	Kendall Green.
William Hamilton .. B. A., 1891, Moravian College, Pa.; M. A., 1894, Columbian University.	Major: American His- tory; Minors: English History; Economics.	Pennsylvania.....	Bureau of Education.
John Kerfoot Haywood..... B. S., 1896, Cornell University.	Major: Agricultural Chemistry; Minors: Analytical Chemistry; Geology.	New York.....	1722 Corcoran Street, N. W.
Rev. Albert Mayer Hilliker..... B. D., 1890, Seabury Divinity School; M. A., 1899, Colum- bian University.	Major: Philosophy; Minors: History of Philosophy; Philo- sophy of History.	Minnesota .....	Theological Seminary, Virginia.
William Mather Lamson .. B. S., 1897; C. E., 1899, Colum- bian University.	Major: Applied Mathe- matics; Minors: Ap- plied Mathematics; Pure Mathematics.	District of Columbia.	239 8th Street, N. E.

Edwin Rufus Lewis.....	Major: Biblical Literature; Minors: Philosophy; Ancient and Church History.	District of Columbia. 1623 N Street, N. W.
A. B., 1861; A. M., 1864, Amherst College; M. D., 1867, Harvard College; 1871, Union Theological Seminary.		
Rev. Donald Campbell MacLeod.	Major: Philosophy; Minors: Sociology; Biblical Literature.	District of Columbia. 316 Indiana Avenue, N. W.
B. A., 1895; M. A., 1898, Franklin College; 1898, Western Theological Seminary.		
Caleb Clark Magruder.....	Major: English; Minors: English History; Philosophy.	Maryland..... Treasury Department.
A. B., 1889; A. M., 1898, Loyola College; LL. B., 1897, Georgetown University; M. A., 1899, Columbian University.		
Stephen Cookman Miller.....	Major: Mineral Chemistry; Minors: Organic Chemistry; Petrography.	Minnesota..... 1324 New York Ave, N. W.
M. D., 1884; M. S., 1898, Columbian University; Pharm. D., 1888, Howard University.		
Joseph Strayer Mills.....	Major: Chemistry; Minors: Mineralogy, Physics.	Maryland..... Central High School.
B. A., 1890; M. A., 1893, Western Maryland College.		
Charles Moore.....	Major: American History; Minors: English History; Economics.	Michigan..... Senate Post-office.
A. B., 1878, Harvard College; M. A., 1898, Columbian University.		

## FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Henry Orth, Jr. M. F., 1893, Lehigh University; M. S., 1899, Columbian University.	Major: Physical Chemistry; Minors: Organic Chemistry; Theoretical Chemistry.	District of Columbia.	1011 L Street, N. W.
Clarence Julian Owens B. A., 1893, Carolina College.	Major: English; Minors: History; Philosophy.	South Carolina.....	Metropolitan Hotel.
George Edward Patrick B. S., 1873; M. S., 1874, Cornell University.	Major: Agricultural Chemistry; Minors: Biochemistry; Bacteriology.	Iowa.....	Division of Chemistry, Department of Agriculture.
Warren Waverley Phelan B. A., 1894; M. A., 1896, Columbia University.	Major: Comparative Jurisprudence; Minors: German and Continental History; Political Philosophy.	New York.....	822 Connecticut Avenue, N. W.
Edward George Portner B. S., 1897; M. S., 1898, Columbian University.	Major: Organic Chemistry; Minors: Mineral Chemistry; Theoretical Chemistry.	District of Columbia.	1104 Vermont Avenue, N. W.
Henry Rogers Pyne B. A., 1893; M. A., 1894, Columbian University.	Major: Greek; Minors: Latin; French.	Maine .....	1702 S Street, N. W.

Fred Ferguson Reisner..... B. S., 1897; E. E., 1898, Colum- bian University.	Major: Physics; Minors: Mathematics; Physical Chemistry.	Missouri..... 323 T Street, N. W.
John Merriam Reynolds..... M. A., 1895, Columbian Univer- sity.	Major: Philosophy; Mi- nors: Continental His- tory; Political Philos- ophy.	Pennsylvania..... 1309 Connecticut Ave- nue, N. W.
Chohei Shirasu..... 1893, Doshisha University; A. M., 1899, Yale University.	Major: Finance; Minors: Economics; Compara- tive Jurisprudence.	Japan ... Japanese Legation.
Christian George Storm..... B. S., 1898; M. S., 1899, Colum- bian University.	Major: Chemistry; Minors: Physical Chemistry; Mineral- ogy.	Wisconsin ... 316 Delaware Avenue, N. E.
Alexander Summers. .... B. A., 1876; M. A., 1893, Uni- versity of Tennessee.	Major: Political Phil- osophy; Minors: Philosophy; Compar- ative Politics.	Tennessee ... Bureau of Education.
Ernest Lawton Thurston..... C. E., 1893, Columbian Uni- versity.	Major: Graphic Statics; Minors: Higher Cal- culus; Differential Equations.	District of Columbia. 1503 R Street, N. W.
William Allen Wilbur... A. B., 1888; A. M., 1894, Brown University.	Major: Philosophy; Minors: Gothic; En- glish History.	Connecticut..... The Columbian Uni- versity.

FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

NAME.	TOPICS.	RESIDENCE.	ADDRESS.
Thomas Albert Williams..... B. S., 1889; M. A., 1891, Uni- versity of Nebraska.	Major: Phanerogamic Botany; Minors: Cryptogamic Botany; Geology.	Nebraska.....	Takoma Park, D. C.
Thomas Alfred Witherspoon..... 1883, U. S. Naval Academy; LL. B., 1891; M. S., 1897, Columbian University.	Major: Physical Chem- istry; Minors: Chem- istry; Electricity.	Tennessee. ....	U. S. Patent Office.
Total.....			99

# THE LAW SCHOOL.

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## THE FACULTY.

\* REV. BENAIAH L. WHITMAN, D. D., LL. D.,  
*President.*

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

HON. WALTER S. COX, LL. D.,  
*Dean,*  
(Sometime Associate Justice of the Supreme Court of the  
District of Columbia),  
Professor of the Law of Real Property and Contracts.

HON. JOHN M. HARLAN, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Professor of Constitutional Law, Domestic Relations,  
Torts, and Personal Property.

HON. DAVID J. BREWER, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Professor of the Law of Corporations and  
Equity Jurisprudence.

HON. WILLIAM A. MAURY, LL. D.  
(Sometime Assistant Attorney General of the United States),  
Professor of Common Law Pleading, Evidence, the  
Jurisdiction and Practice of the Federal  
Courts, and Insurance.

HON. ANDREW C. BRADLEY, LL. B.  
(Associate Justice of the Supreme Court of the District of  
Columbia),  
Professor of Commercial Paper and Criminal Law.

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\* Resigned March 31, 1900.

## THE COLUMBIAN UNIVERSITY.

WILLIAM G. JOHNSON, LL. M.  
(of the Washington Bar),  
Professor of Common Law Practice.

HON. WILLIS VAN DEVANTER  
(Assistant Attorney General of the United States),  
Professor of Equity Pleading and Practice.

MELVILLE CHURCH, LL. M.,  
Professor of the Law of Patents.

WILLIAM F. MATTINGLY, A. M.  
(of the Washington Bar),  
Professor of Practical Commercial Law.

CHARLES W. NEEDHAM, LL. M.  
(of the Washington Bar),  
Professor of the History of Law, Trusts, and Trades Unions,  
and in charge of the Moot-Court Work.

WALTER C. CLEPHANE, LL. M.,  
FRANCIS H. STEPHENS, LL. M.,  
Instructors in Moot-Court Work.

EDWIN C. BRANDENBURG, LL. M.,  
Instructor in Procedure in Bankruptcy.

## COURT OF APPEALS.

WILLIAM F. MATTINGLY, *Chief Justice*.  
ANDREW B. DUVALL, }  
CHARLES W. NEEDHAM, } *Associate Justices*.

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CHARLES RAY DEAN, LL. M.,  
Secretary of the Schools of Law.



This school was established in 1865, and is the oldest law school in Washington. Men occupying the highest positions in the profession are in its faculty, personal contact with whom is a source of inspiration to every student.

### LAW LECTURE HALL.

The University has recently completed and now occupies a new building, known as Law Lecture Hall, devoted exclusively to its "Schools of Law and Diplomacy." It adjoins University Hall, corner Fifteenth and H streets, and is only two blocks from the Executive Mansion. This new building contains three commodious lecture halls, two moot-court rooms, a large and well lighted library-room, and administrative offices. The building is lighted by electricity, handsomely furnished, and well equipped and adapted to the work for which it is designed.

### ADMISSION.

Applicants for admission to the First-year class as candidates for a degree must be at least eighteen years of age, and must have had an education equivalent to a high school course.

The educational requirement may be satisfied by a presentation of certificates or by an examination before the Dean. Application blanks will be furnished by the Secretary.

The regular course of study embraces three years. There is also a special course of one year in Patent Law.

A student may be admitted to advanced standing upon furnishing evidence satisfactory to the Dean that he has spent the necessary time and performed the necessary study, whether in another law school or under the direction of a practicing lawyer; but in all such cases he will be required to produce a certificate of the fact or sustain an examination on all the subjects for which he asks credit.

The annual session begins on the first Monday in October, and continues until the Wednesday nearest the first day of June following.

The exercises of the department begin at six o'clock p. m. every week day except Saturday.

The register will be opened for the enrollment of students on the first day of September.

The University, in October, 1898, increased the regular course of study for candidates for the degree of Bachelor of Laws to three years. The work has been largely increased with a view of giving students that thorough knowledge of the general rules of law and practice which will fit them for the Bar of any State. The course will give the general sources of law, the law upon the great subjects of jurisprudence, and the practical side of legal education. Professors will conduct the study of each subject by lectures, required courses of reading, and class discussions and conferences. The study of special cases upon the various subjects treated and the Moot-Court work have been largely increased, thus bringing before the student the modern applications of law by the courts of the country.

Special instruction and practical work are given the students in the preparation of Contracts, Wills, and in the organization of Corporations. This work is carefully examined and returned to the student, with suggestions by the instructors in charge of the work.

Beginning October 1, 1900, professors will meet each class separately in those subjects which extend through two years of the course, and will hold final examinations on the work assigned during each year.

There will be ten hours per week of class-room work in each year of the course.

## COURSES OF INSTRUCTION.

### *First Year.*

After preliminary lectures on the study of law, the courses are as follows:

CLASSIFICATION AND HISTORY OF AMERICAN AND ENGLISH LAW.\*—Professor Needham. † One hour.

DOMESTIC RELATIONS.—Professor Harlan. One hour, one-half year. "*Brown on Domestic Relations*" and *special leading cases*.

PERSONAL PROPERTY.—Professor Harlan. One hour, one-half year. "*Smith on Personal Property*" and *special leading cases*.

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\* No text-book.

† Unless otherwise stated, hours per week throughout the year.

**TORTS.**—Professor Harlan. One hour. "*Pollock on Torts*" and special cases.

**CRIMINAL LAW.**—Professor Bradley. One hour, one-half year.

**REAL PROPERTY.**—Professor Cox. Two hours. *Blackstone*.

**CONTRACTS, INCLUDING AGENCY, PARTNERSHIP, SALES, BAILMENTS, INSURANCE, ETC.**—Professor Cox. One hour. "*Parsons on Contracts*."

**COMMERCIAL PAPER.**—Professor Bradley. One hour, one-half year.

**CLASS CONFERENCES AND SPECIAL ASSIGNMENTS.**—Two hours.

First year's instruction will be carried on by topical lectures, supplemented by carefully arranged courses of reading and the study of selected cases which state and illustrate the law. There will be class discussions upon the lectures, and free questioning by students is encouraged. Quiz classes may be formed, and every facility will be afforded the student to aid him in a thorough understanding of the subjects studied.

### *Second Year.*

**COMMON LAW PLEADING.**—Professor Maury. Two hours. "*Stephen on Pleading*" (Tyler).

**EVIDENCE.**—Professor Maury. One hour. "*Greenleaf on Evidence*" and special cases.

**EQUITY JURISPRUDENCE.**—Professor Brewer. One hour, one-half year. *Pomeroy, Adams, or Story*.

**CONSTITUTIONAL LAW.**—Professor Harlan. One hour. *Story*.

**CORPORATIONS.**—Professor Brewer. One hour, one-half year. *Morawetz, Clark, or Dillon*.

**REAL PROPERTY.**—Professor Cox. Two hours. *Kent and Tiedeman* and special cases.

**CONTRACTS.**—Professor Cox. One hour. *Special cases*.

**INSURANCE—FIRE, LIFE, AND MARINE.**—Professor Maury. One hour.

ORGANIZATION OF TRUSTS AND TRADES UNIONS.—Professor Needham. One hour, one-half year.

CLASS CONFERENCES AND SPECIAL ASSIGNMENTS.—Two hours.

Special courses of reading in text-books and selected cases will be assigned by the professors, and cases will be used in the lectures to illustrate the subject under consideration. Practical work in the preparation of contracts and written obligations of various kinds will be given to students by the professors, and this work carefully examined. The second year students will be divided into sections, and there will be discussions and papers upon the subjects gone over in the first and second years' study.

*Third Year.*

CRIMINAL PROCEDURE.—Professor Bradley. One hour, one-half year. *May.*

COMMON LAW PRACTICE.—Professor Johnson. One hour. "*Cox's Common Law Practice*" and selected cases.

FEDERAL PROCEDURE.—Professor Maury. One hour, one half-year.

EQUITY PLEADING AND PRACTICE.—Professor Van Devanter. One hour. "*Shipman on Equity Pleading*" and special cases.

PRACTICAL COMMERCIAL LAW.—Professor Mattingly. One hour, one-half year. *Special cases.*

PROCEDURE IN BANKRUPTCY.—Mr. Brandenburg. One hour, one-half year.

CONTRACT DRAFTING.—Professor Needham.

TESTAMENTARY PRACTICE.—Mr. Clephane. Infants and Lunatics.—Mr. Stephens. One hour, one-half year.

MOOT COURTS.—Professor Needham and Messrs. Clephane and Stephens. Six hours.

The third year course will also be carried on by special lectures and the study of selected cases; special courses of reading will be assigned, and each student in the third year will take

part in the preparation of cases in the Moot Courts, law and equity, upon such a statement of facts as a client would give to a lawyer in active practice, the cases to be carried through from the commencement of the action to a final hearing, according to rules of procedure prepared by the professor in charge of the Moot Courts; cases may be taken by appeal to the Appellate Moot Court, thus giving the student practice and drill in determining what actions will lie upon a given state of facts, what defenses may be interposed, and the various steps in the conduct of cases in court. These courts will be presided over by professors and lawyers from the Washington Bar.

### PATENT LAW COURSE.

A special course in Patent Law and Patent Law Practice will be conducted by Professor Church, giving thorough preparation to those who contemplate entering that department of jurisprudence. This course covers a period of eight months, with two lectures or sessions of the Moot Court each week. The degree of Master of Patent Laws will be conferred upon those who pass satisfactory examinations at the close of the term. Only graduates in law or members of the bar are eligible to the degree, but any person qualified to profit by the instruction offered will be admitted to the course.

### EXAMINATIONS.

Written examinations will be required upon each subject specified in the courses and will be conducted at the conclusion of each subject. At the close of the third year a general review and examination may be had. The standing of the student upon the several examinations and the regularity of his attendance upon the course will determine his right to the degree.

### DEGREE OF BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

## FEES AND EXPENSES.

The tuition fee for the regular course is eighty dollars per year of eight months; this to be paid in advance, monthly or quarterly, at the option of the student. The tuition fee for the Patent Law course is forty dollars. A charge of ten dollars in all cases is made for diplomas, and two dollars for library fee each year. Board and lodgings, including heat and light, can be obtained in the city at prices ranging from five dollars per week upward.

A student who withdraws from the Law School in the course of an Academic year is required to give immediate notice to the Registrar of the University.

*No deduction from the full year's fees will be made in the case of a student withdrawing in the course of a year unless he gives this notice.*

NOTICE.—*Increase of tuition fee.*

*Students matriculating for the Academic year beginning October 7, 1901, and thereafter, will be charged a tuition fee of one hundred dollars per annum.*

## LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 3,000 volumes, is open to the students in Law Lecture Hall from nine a. m. to ten p. m.

The library contains the standard text-books, the West Reporter System of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

## ADMISSION TO THE BAR.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have

studied law for three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as discharging this requirement.

### PRIZES.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. Myron M. Parker, is awarded each year to the student who passes the best examination for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second editions, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the Third Year Class as shall compete for them and shall pass a successful examination.

Two prizes for excellence in debate are awarded by the Debating Society.

#### *Prize Awards, 1899.*

M. M. Parker Prize .....	George T. May, Jr.
Edward Thompson Company Prize..	Edward Everett Denison.
First Essay Prize.....	Herbert F. Harris.
Second Essay Prize.....	Ewin Lamar Davis.
Third Essay Prize .....	Jabe C. Reader.
First Debater's Prize.....	Jabe C. Reader.
Second Debater's Prize.....	Adam McMullen.

Graduates of the Law School with the degree of Bachelor of Laws are admitted without examination to the School of Comparative Jurisprudence and Diplomacy for the degrees of Master of Laws, Doctor of Civil Law, and Master of Diplomacy.

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For catalogues and further information, address the SECRETARY OF THE SCHOOLS OF LAW, 1420 H Street, Washington, D. C.

## STUDENTS OF LAW.

*Third Year Class, or Candidates for the Degree of Bachelor of Laws.*

Names.	State.	Address.
Alexander, Thomas W.....	N. C....	1112 13th Street.
Butler, Ulysses.....	D. C....	621 23d Street.
Clifton, Horace Bardford.....	D. C....	2819 Q Street.
Cooper, George Houston, Jr....	D. C....	1132 5th Street.
Dilworth, Dwight P.....	Kans...	828 12th Street.
Herbert, William Carlyle.....	Va.....	116 Wash. St., Alex.
Holton, Fred J.....	Utah...	1312 8th Street.
Hume, Robert Scott.....	Va.....	1235 Mass. Avenue.
A. B., Yale University, 1898.		
Jenson, Nels .....	Utah...	1312 8th Street.
Kodera, Keukichi.....	Japan...	617 H Street.
Loucks, Edwin O.....	D. C....	1911 4th Street.
McClure, William E. ....	D. C....	909 N. Y. Avenue.
A. B., University of Oregon, 1896.		
Merritt, Norman L.....	N. Y....	2503 14th Street.
Sartoris, Algernon... ..	D. C....	2111 Mass. Avenue.
Sloan, Austin Clark.....	Wyo....	201 North Capitol St.
Stewart, Charles R .....	Texas...	1319 Vermont Ave.
Stuart, Albert Rhett.....	S. C....	1226 15th Street.
A. B., The Columbian University.		
Stuart, James. ....	Ohio....	1016 11th Street.
Sweeney, James G.....	Nev....	1118 N. Y. Avenue.
A. B., St. Mary's College, Cal.		
Thomson, Alfred Nevette.....	W. Va..	1215 I Street.
Thurman, Richard B.....	Utah...	Care U. S. Senate.
Warren, Edward M.....	N. D....	804 N. C. Avenue.

*Second-Year Class.*

Name.	State.	Address.
Anderson, Dwight.....	D. C....	1008 F Street.
Athey, Thomas Franklin.....	Mo.....	158 F Street, S. E.
Austin, William Morris.....	D. C....	2017 O Street.
B. S., Trinity College, 1898.		
Ballinger, John H.....	Iowa...	2231 I Street.
Barclay, Fred Homer.....	Wyo....	Hotel Stratford.



Name.	State.	Address.
Boyle, John. ....	Pa. ....	4015 8th Street.
Bissing, William. ....	Md. ....	Patent Office.
A. B., Johns Hopkins University, 1891.		
Blackwood, Don Piatt. ....	D. C. ....	3233 N Street.
Brothers, Maxwell Rice. ....	Miss. ....	1931 K Street.
Broughton, William G. ....	Ill. ....	1629 Q Street.
Ph. B., University of Chicago.		
Browne, Frederick W. ....	Iowa ...	909 N. Y. Avenue.
Caldwell, J. Mentor. ....	W. Va. .	1208 M Street.
Calfee, Robert M. ....	Va. ....	
A. B., Roanoke College, 1893.		
Campbell, Edward K. ....	Ohio ...	1004 M Street.
Cannon, H. M. ....	D. C. ....	1414 Q Street.
Champion, Robert. ....	D. C. ....	1113 I Street, S. E.
Clark, Reed Paige. ....	N. H. ...	1424 11th Street.
A. B., The Columbian University, 1898.		
Conwell, Lewis Colfax. ....	Iowa ...	6th Auditor's Office.
Cox, Joseph Winston. ....	Va. ....	Equity Building.
Dodge, Arthur J. ....	D. C. ....	3401 Holmead Ave.
Dryden, Martin Thomas. ....	D. C. ....	318 6th Street, N. E.
Dudley, John G. ....	N. C. ....	817 15th Street.
Duncan, George Russell. ....	Ill. ....	1219 Yale Street.
Evans, Frank P. ....	D. C. ....	1604 15th Street.
Fullilove, Samford C. ....	La. ....	1931 K Street.
A. B., Centenary College, 1896.		
Gauss, Herman Charles. ....	Conn. ...	24 6th Street, S. E.
Goldberg, Louis. ....	N. Y. ....	1012 N Street.
Gordon, Allen T. C. ....	D. C. ....	6 Cooke Place.
Graves, James Harwood. ....	Va. ....	1463 Kenesaw Ave.
Greene, Warren Earle. ....	R. I. ....	1302 L Street.
B. P., Brown University.		
Greene, William Armstrong. ...	N. J. ...	2032 O Street.
Greer, Walter Andrew. ....	Mo. ....	43 L Street, N. E.
Gunderson, Henry E. ....	Wis. ....	514 3d Street.
Hearn, Wilfred. ....	Ark. ....	1414 Q Street.
Hench, John K. ....	Pa. ....	Pension Office.
Herrick, Samuel. ....	Pa. ....	1644 21st Street.
Holloway, W. H. ....	N. C. ....	1638 16th Street.
Hopkins, Marcus C. ....	D. C. ....	1002 11th Street.

Name.	State.	Address.
Howard, William W. J.....	Colo.....	1108 N. Y. Avenue.
Huggett, M. Charles.....	Mich....	1403 H Street.
Huidekoper, Frederic L.....	D. C....	1705 N. H. Avenue.
Hume, Thomas L.....	D. C....	1413 29th Street.
Johnson, Benjamin R.....	N. Y....	1829 G Street.
A. B., Hamilton College.		
Johnston, Robert.. .....	Wyo....	720 17th Street.
Jones, Henry Elihu.....	Minn....	1205 N Street.
Lewis, Samuel S.....	Pa.....	905 H Street.
Long, Edward S.....	Ky.....	1442 S Street.
Matthews, Wm. Baynham, Jr..	D. C....	1463 Kenesaw Ave.
McCormick, Howard.....	D. C....	Navy Yard.
Merrill, Thomas Sherlock.....	D. C....	416 T Street.
Moore, Edward S.....	Wis.....	467 M Street.
Pagelsen, Edward N.....	Mich....	1308 I Street.
B. S., Michigan Agricultural College.		
Parker, Brainard Warner.....	D. C....	1829 19th Street.
A. B., Yale University.		
Peters, Arthur S.....	D. C....	1354 Columbia Road.
Plant, Arthur G.....	D. C....	918 M Street.
Plumley, Walter Preston.....	D. C....	408 H Street.
Pratt, Clarence H.....	D. C....	1300 Pa. Avenue.
Proctor, Alfred W.....	Mass....	Patent Office.
Reed, Harry D.....	Ga.....	2434 Pa. Avenue.
Reinohl, William Parker.....	D. C....	611 Q Street.
Renaud, Frank N.....	Mich....	1403 H Street.
Richardson, Charles F. P.....	Mass....	1812 I Street.
A. B., Harvard College, 1896.		
Richardson, Harris P.....	N. Y....	1931 K Street.
Robinson, Frank S.....	Iowa....	1005 13th Street.
B. A., Iowa Wesleyan University.		
Schell, Augustus P.....	Ky.....	440 K Street.
Smith, Robert Everett.....	Iowa....	1004 M Street.
Soult, Will Eugene .....	Colo.....	442 N. Y. Avenue.
Spear, Edwin E.....	D. C....	2750 14th Street.
A. B., Bowdoin College.		
Stephens, Robert Allan.....	Ill.....	Winder Building.
Stewart, William Henry.....	Ga. ....	1004 M Street.
Talbott, James D. ....	Ill.....	929 Farragut Square.
Tallman, Roy Warner.....	Minn...	20 N. Y. Ave., N. E.
B. A., University of Minn.		

Name.	State.	Address.
Thomas, Thomas.....	Ohio ...	1710 G Street.
Veeder, C. A.....	Wis....	442 N. Y. Avenue.
Walter, Luther M.....	Ky.....	713 9th Street.
B. E., N. N. University of Lebanon, Ohio.		
Wilson, Sidney S.....	Mo.....	904 B Street, S. W.
Wingfield, Thomas J.....	Va.....	1519 T Street.
Woodward, W. Theo.....	Iowa ...	225 Indiana Avenue.
Wooster, Julian S.....	Conn...	Patent Office.
Workman, Henry C.....	Mich...	Patent Office.
B. S., The Columbian University.		
Yellott, R. E. L.....	Va.....	1748 Corcoran Street.

*First-Year Class.*

Name.	State.	Address.
Allan, Alexander R.....	D. C....	522 6th Street, S. E.
Altschu, John Henry.....	D. C....	1334 G Street.
A. B., The Columbian University.		
Atwater, W. L.....	N. Y....	2221 F Street.
Barber, Harry A.....	N. Y....	930 I Street.
Barnes, John Howard.....	Kans...	2463 6th Street.
Barnett, Marcus Whitman.....	Idaho...	910 I Street.
A. B., University of Idaho.		
Beall, George W. C., Jr.....	Md.....	Derwood, Md.
Bell, David W.....	N. C....	1331 Kenesaw Street.
Benjamin, Melvin G.....	Ohio....	531 T Street.
Bennett, Thomas E.....	D. C....	625 F Street.
Berry, E. Benton .....	Md.....	2118 Conn. Avenue.
Bethune, John Franklin.....	D. C....	818 D Street, N. E.
Booth, Thomas B.....	Conn...	1828 13th Street.
B. S., Massachusetts Institute of Technology.		
Bowker, Edgar Marshall.....	N. H....	938 N. Y. Avenue.
Breckinridge, Lucien S.....	D. C....	1314 Conn. Avenue.
Brewster, Edward C.....	Ind.....	Post Office Dept.
Brown, Henry Philip.....	N. J....	807 I Street.
Burrough, Frank G.....	D. C....	114 11th Street, S. E.
Burton, George William.....	Ill.....	1501 Park Street.
Butts, Frank Graham.....	D. C....	918 T Street.
Castle, Ernest B.....	N. Y....	

Name.	State.	Address.
Challice, John Gray.....	D. C....	1003 24th Street.
Chase, George G.....	D. C....	1201 Whitney Ave.
Clement, Charles Wolvorton...	Pa.....	1454 Howard Ave.
B. S., Bucknell University, 1898.		
Clendening, Thomas C.....	Ill.....	1903 G Street.
Ph. B., University of Chicago.		
Colburn, Albert E.....	D. C....	1233 G Street.
Collette, Clay G.....	D. C....	1419 F Street.
Coryell, Claude H.....	Mich...	1637 R Street.
Cram, Archer Parris.....	Maine ..	1402 L Street.
Crossman, Charles I.....	Va.....	Falls Church, Va.
Cummings, O. G.....	Ala.....	1202 Q Street.
Cunningham, Carl German....	N. Y....	Patent Office.
Ph. B., Hamilton College.		
Dawson, William Charles.....	Mo.....	The Bancroft.
Dees, J. Homer.....	D. C....	119 B Street, S. W.
Downs, John Lenhart.....	D. C....	224 North Capitol St.
Duckett, T. Howard.....	Md.....	730 21st Street.
Duvall, Andrew B., Jr.....	D. C....	1831 M Street.
A. B., Princeton University.		
Eaton, Frederic Jefferson.....	Wis.....	1415 15th Street.
Eaton, Lee Kimball.....	Wis.....	1414 15th Street.
A. B., Williams College.		
Esterly, Burton Haines....	Wis.....	1115 East Capitol St.
B. S., University of Wisconsin, 1897;		
M. S., The Columbian University, 1898.		
Evans, Maurice P.....	Va.....	1010 F Street.
Everett, Frank Norton.....	D. C....	1614 Riggs Place.
Ewell, Ervin E....	Mich...	1804 S Street.
B. S., University of Michigan.		
Fluckey, I. N.....	Ill.....	1207 Mass. Ave., S. E.
French, Leon L. L.....	D. C....	36 I Street.
Garman, Paris Arthur.....	Ark.....	1411 K Street.
Garner, Harry Summers.....	Pa.....	Light-House Board.
Gates, Merrill Edward, Jr.....	D. C....	1315 N. H. Avenue.
A. B., Amherst College.		
Gold, Hunter Boyd.....	Va.....	The Lafayette.
Goshert, Christie Seymour....	Mo.....	U. S. Fish Comm'n.
Graham, Walter Baber.....	Kans...	1327 North Capitol St.
B. A., University of Kansas.		

Name.	State.	Address.
Haas, Edwin Booth.....	D. C....	1473 Kenesaw Ave.
Hall, John E. M.....	D. C....	The Ardmore.
Harding, Louis L.....	D. C....	310 Mass. Ave., N. E.
Hastings, Daniel O.....	Del.....	2018 H Street.
Hanson, Henry O.....	D. C....	915 16th Street.
Hattabaugh, Murray Reese....	Idaho...	16 4th Street, N. E.
Haws, Samuel N.....	Tenn...	813 12th Street.
Hayes, John W.....	D. C....	220 North Capitol St.
Heath, Thomas Ramsdell.....	D. C....	528 Spruce Street.
Heylman, Clarence Gobin.....	D. C....	1512 T Street.
Holden, Delos .....	N. Y....	908 H Street.
Holmes, Edward Wilson.....	Del.....	926 Mass. Avenue.
Holmes, Robert J.....	Neb.....	1118 N. Y. Avenue.
Holzberg, Berend P.....	D. C....	1011 24th Street.
Horne, William Walker.....	Ga.....	1120 13th Street.
Horstmann, Ferdinand Oden, Jr.	D. C....	1710 R. I. Avenue.
Howell, Wheeler.....	Ohio....	1111 11th Street.
Hunter, Edmund P.....	Va. ....	Corcoran Building.
Hutchinson, James Edwin, Jr.	D. C....	904 Pa. Ave., S. E.
Hyman, Harry .....	Texas ..	606 9th Street.
Johnson, Charles Tibbitts, Jr..	N. Y....	1600 1st Street, N. E.
Jones, Bruce C.....	Ga.....	1527 Corcoran Street.
Lamborn, Charles C.....	D. C....	1510 S Street.
Lockwood, Carl.....	D. C....	21 7th Street, S. E.
Lundy, Edwin King .....	D. C....	808 N. C. Ave., S. E.
Marris, Claude F.....	Mo.....	4 Jackson Place.
Mason, Maynadier M.....	D. C....	1827 H Street.
McCreary, James B.....	N. Y....	1360 Harvard Street.
McElhone, Arthur J.....	D. C....	1110 M Street.
McEnery, C. P.....	La.....	Metropolitan Hotel.
McLean, Hubert G.....	Mich. ...	222 Mass. Avenue.
McNeil, Walter Anderson.....	Tenn. ...	1719 G Street.
Meem, Harry Grant.....	D. C....	2011 F Street.
Mothershead, J. Francis H. ...	D. C....	1322 6th Street.
Moulton, Harry Dodge.....	D. C....	717 8th Street.
Nelson, George Bliss.....	Wis.....	51 D Street, S. E.
Norris, James Lawson, Jr.....	D. C....	331 C Street.
A. B., Princeton University, 1899.		
Oberlin, Paca.....	Va.....	55 Mass. Avenue.
Oberlin, Stuart E.....	Va.....	55 Mass. Avenue.

Name.	State.	Address.
Osborne, John Herbert.....	Ind.....	4 Jackson Place.
Pack, Harold J. . . . .	Pa.....	707 12th Street.
Pearson, Perry Spencer.....	Ga.....	1112 10th Street. A. B., Mercer University, Georgia.
Peelle, Stanton C.....	D. C....	The Concord. A. B., The Columbian University.
Pines, George Samuel.....	Ill.....	Treasury Dep't.
Pitcher, Eugene H. . . . .	Ill.....	1201 East Capitol St.
Proctor, Edgar C.....	D. C....	921 P Street.
Radelfinger, Frank Gustave...	Cal. ....	912 S Street. B. S., University of California.
Rawlings, Richard Galt.....	D. C....	1505 Pa. Avenue.
Ray, Preston Blair.....	Md.....	Forest Glen, Md. B. S., The Columbian University.
Redington, Walter Powell.....	D. C....	1749 Q Street. A. B., Princeton University.
Reece, Harvey W.....	Mass....	219 8th Street, S. E.
Renick, Miles Jackson.....	N. Y....	Treasury Dep't.
Rhodes, John D.....	D. C....	321 H Street, N. E.
Richards, J. Donald.....	Va.....	723 8th Street.
Rogers, Clyde L.....	N. Y....	Patent Office. A. B., Alfred University, 1899.
Ryder, Harold R. . . . .	Pa . . . .	1312 8th Street.
Senft, Christian.....	Pa . . . .	205 9th Street, S. W.
Shadle, John T.....	D. C....	711 11th Street.
Simpson, Lacey Moore . . . . .	Kans....	724 9th Street.
Sleman, Paul E.....	D. C....	3008 15th Street.
Smith, John Lewis.....	D. C....	Loan and Trust Bldg.
Stevens, Lucius Kelsey.....	Conn...	1829 G Street. A. B., Hamilton College.
Stone, Frank T.....	Va.....	2d St. and Pa. Ave., S. E.
Stovall, William H. . . . .	Tenn...	1028 17th Street.
Swan, Arthur Rogers.....	D. C....	1253 Kenesaw Street.
Swift, Granville R. . . . .	Va.....	1536 I Street.
Taggart, Eugene Henry.....	Ohio....	1604 15th Street.
Thomas, Clarence Lot.....	Iowa.	 A. B., Leland Stanford University.
Thompson, Ward E.....	Ill.....	1358 Harvard Street.
Todd, George Carroll.....	Va.....	221 9th Street, N. E. B. S., The Columbian University.

Name.	State.	Address.
Tower, Edwin B. H., Jr.....	N. Y....	1240 Princeton St.
Trickey, Corridon Heath.....	Fla. ....	243 10th St., N. E.
Tulloch, Henry V.....	D. C....	121 B Street, S. E. A. B., Princeton University.
Vass, George Oakley.....	Cal.....	1316 L Street.
Vickery, Rupert .....	W. Va..	1119 K Street.
Vincent, Burtran W .....	Texas...	1110 13th Street.
Whelpley, J. R .....	D. C....	800 E. Capitol Street. C. E., Cornell University.
Wambaugh, William Jacob....	Pa.....	229 13th St., S. W.
White, Wallace H., Jr.....	Maine..	1402 L Street. A. B., Bowdoin College, 1899.
Williams, Robert Lincoln.....	Colo....	1313 T Street.
Wilson, Charles McCormick...	D. C....	2909 Q Street.
Wilson, Thomas B.....	Wash...	221 A Street, N. E.
Wood, Charles Edwards.....	D. C....	2309 18th Street.

*Special Students.*

Name.	State.	Address.
Adams, Benjamin F.....	N. H...	1217 L Street. A. B., Dartmouth, 1897.
Barksdale, A. Arnold.....	La.....	808 12th Street.
Breazeale, Ross E.....	La.....	Willard's Hotel.
Polk, Charles M.....	Ark....	1006 11th Street.
Thompson, Henry Rice.....	D. C....	2023 Hillyer Place.
Weeks, Frederick B.....	Mo.....	2715 U Street.
Weeks, R. Prentiss.....	Mo.....	2715 U Street. LL. B., University of Arkansas.

*Students in Patent Law.*

Name.	State.	Address.
Allyn, Robert Starr.....	Conn...	1016 10th Street. B. S., Massachusetts Institute of Technology; LL. B., National University Law School.
Ames, Robert L.....	Mich...	Patent Office. B. S., University of Michigan. LL. B., The Columbian University.
Cromwell, William Nevarre....	D. C....	1314 V Street. LL. B., The Columbian University.

Name.	State.	Address.
Donaldson, Walter.....	D. C....	22 R Street, N. E.
Hall, William Fairfax.....	D. C....	134 10th Street, N. E.
LL. B., The Columbian University.		
Hamlin, George R.....	D. C....	1320 Riggs Street.
LL. B., LL. M., National University.		
Milans, Joseph H.....	D. C....	626 F Street.
LL. B., The Columbian University.		
Oliver, Robert Taylor.....	D. C....	1604 Q Street.
LL. B., LL. M., The Columbian University		
Vaill, Edward W., Jr.....	D. C....	Patent Office.
B. S., Worcester Polytechnic Institute; LL. B., The Columbian University.		
Woodworth, George Keen.....	D. C....	1424 S Street.
M. E., Cornell University, 1896;		
M. S., The Columbian University, 1899.		

*Recapitulation.*

Third, or Senior Year.....	22
Second, or Middle Year.....	81
First, or Junior Year.....	134
Students in Patent Law.....	10
Special Students.....	7
Total....	<hr/> 254



# THE SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.

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## THE GRADUATE COURSE.

---

### BOARD OF VISITORS.

HON. MELVILLE W. FULLER, LL. D.,  
Chief Justice of the United States.

HON. JOHN HAY, LL. D.,  
Secretary of State.

HON. LYMAN J. GAGE, LL. D.,  
Secretary of the Treasury.

HON. HENRY B. BROWN, LL. D.,  
Associate Justice of the Supreme Court of the United States.

HON. CUSHMAN K. DAVIS, LL. D.,  
United States Senator from Minnesota.

HON. CHAUNCEY M. DEPEW, LL. D.,  
United States Senator from New York.

HON. JOHN F. DILLON, LL. D.,  
Formerly Judge of the Circuit Court of the United States.

HON. WILLIAM LINDSAY, LL. D.,  
United States Senator from Kentucky.

HON. FRANK A. VANDERLIP,  
Assistant Secretary of the Treasury.

## THE FACULTY.

\* REV. BENAIHAH L. WHITMAN, D. D., LL. D.,

*President,*

Political History and Science.

Political Geography.

REV. SAMUEL H. GREENE, D. D., LL. D.,

*President pro tempore.*

CHARLES W. NEEDHAM, LL. M.,

*Dean,*

The Common Law ; Transportation and Interstate Commerce  
Law.

HON. JOHN M. HARLAN, LL. D.

(Associate Justice of the Supreme Court of the United States),  
Constitutional Law, Comparative Constitutional Law, and  
Conflict of Laws.

HON. DAVID J. BREWER, LL. D.

(Associate Justice of the Supreme Court of the United States),  
International Law.

HON. JOHN W. FOSTER, LL. D.

(Ex-Secretary of State),

Diplomacy and Treaties of the United States ; Duties of  
Ambassadors, Ministers, and Consuls ; Boards of  
Arbitration.

HON. DAVID J. HILL, LL. D.

(Assistant Secretary of State),

European Diplomacy and Treaties.

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\* Resigned March 31, 1900.

HON. WILLIAM WIRT HOWE, LL. D.

(of the New Orleans Bar),

Ancient Law, Roman Law, Mediæval and Modern Civil Law.

JOSEPH FRENCH JOHNSON, A. B.,

Money, Credits, and Foreign Exchange.

HON. MARTIN A. KNAPP, LL. D.

(Chairman Interstate Commerce Commission),

Interstate Commerce Law.

HON. WILLIAM P. WILSON, Sc. D.

(Director of the Philadelphia Commercial Museum),

International Trade and Commercial Geography.

HON. CARROLL D. WRIGHT, LL. D.

(Commissioner of the Department of Labor),

Statistics and Social Economics.

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LECTURERS.

HON. LYMAN J. GAGE, LL. D.

(Secretary of the Treasury),

Lecturer on Public Finance, Money, and Credits.

EDWARD H. STROBEL, LL. B.

(Of Harvard University),

Jurisprudence of France and of Spain.

N. W. HOYLES, Q. C.

(Principal, Toronto Law School),

Jurisprudence of Canada.

---

CHARLES RAY DEAN, LL. M.,

Secretary of the Schools of Law.

Special lectures upon the jurisprudence of England and her Colonies, Germany, Austro-Hungary, Italy and Colonial Law will be announced during the year.

A course of lectures upon the Organization of the Diplomatic Service of Other Nations, the History of International Conventions, and the Lives of Great Men will be delivered by some of the Diplomatic Corps resident in Washington and by other distinguished public men.

## ASSIGNMENTS.

### *First Year.*

CONSTITUTIONAL LAW OF THE UNITED STATES. One hour.\*  
PROFESSOR HARLAN. *Story on the Constitution.*

COMPARATIVE CONSTITUTIONAL LAW.† One hour, one-half year.  
PROFESSOR HARLAN.

CONFLICT OF LAWS. One hour, one half year. PROFESSOR HARLAN. *Story.*

INTERNATIONAL LAW. One hour. PROFESSOR BREWER. *Hall.*

ROMAN LAW. One hour, one-half year. PROFESSOR HOWE. *Studies in the Civil Law. Howe.*

TRANSPORTATION AND INTERSTATE COMMERCE LAW.† One hour.  
PROFESSOR NEEDHAM.

POLITICAL HISTORY AND POLITICAL GEOGRAPHY.† One hour  
THE PRESIDENT.

HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.†  
One hour, one-half year. PROFESSOR FOSTER.

STATISTICS AND SOCIAL ECONOMICS. One hour. PROFESSOR WRIGHT.

\* Unless otherwise stated, hours per week throughout the year.

† No text-book.

**SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 171**

**ADMINISTRATIVE LAW.\*** One hour, one-half year.

**LATIN, FRENCH, GERMAN, AND SPANISH.** (Special.)

Five hours each week will be devoted to class discussions and conferences, conducted by professors and instructors.

*Second Year.*

**POLITICAL SCIENCE.\*** One hour. **THE PRESIDENT.**

**HISTORY OF DIPLOMACY OF THE UNITED STATES, ORGANIZATION OF THE STATE DEPARTMENT, DUTIES OF AMBASSADORS, MINISTERS, AND CONSULS, AND INTERNATIONAL ARBITRATION.\*** One hour. **PROFESSOR FOSTER.**

**HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.\*** One hour. **PROFESSOR HILL.**

**LAWS OF ANCIENT NATIONS.\*** One hour.

(a) History and General Principles of the Laws of India, Egypt, Palestine, and Greece. **PROFESSOR HOWE.**

(b) History and General Principles of Roman Law to and including the time of Justinian. **PROFESSOR HOWE.**

(c) A General View of the Law in Europe during the Middle Ages. **PROFESSOR HOWE.**

(d) The Extension of the Roman Law into some of the Modern States. **PROFESSOR HOWE.**

**THE COMMON LAW, ITS HISTORY AND EXTENSION INTO SOME OF THE MODERN STATES.** One hour. **PROFESSOR NERDHAM.**

**JURISPRUDENCE OF FRANCE AND SPAIN.** **PROFESSOR STROBEL.**

**JURISPRUDENCE OF CANADA.** **PROFESSOR HOYLES.**

**INTERNATIONAL LAW.\*** One hour, one-half year. **PROFESSOR BREWER.**

**INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.\*** One hour, one-half year. **PROFESSOR WILSON.**

**FINANCE.\*** One hour. **PROFESSOR JOHNSON.**

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\* No text-book.

**FINANCE.** Special lectures by Hon. LYMAN J. GAGE.

**LATIN, FRENCH, GERMAN, AND SPANISH.** (Special.)

Special Lectures, Class Discussions and Conferences, five hours.

The class-room work for each year will occupy about ten hours—two hours every week day except Saturday.

## COURSES OF INSTRUCTION.

**LAW SECTION.**—Leading to the degree of Master of Laws.  
One year.

**1. REGULAR COURSE.**

Constitutional Law of the United States.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Political History.

**2. ELECTIVE COURSE.**

Comparative Constitutional Law.

Administrative Law.

Colonial Law.

**3. CONFERENCES FOR REVIEW AND EXAMINATION.**

Constitutional Law.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Political History.

**NOTE.**—Students in this course may take the Moot-Court work in the Law School without extra charge.

**LAW SECTION.**—Leading to the degree of Doctor of Civil Law. Two years.

**1. REGULAR COURSE, FIRST YEAR.**

Constitutional Law of the United States.  
Comparative Constitutional Law.  
Conflict of Laws.  
International Law.  
Roman Law.  
Transportation and Interstate Commerce Law.  
Political History.  
Political Geography.  
Colonial Law.  
Latin and French, German or Spanish (special).

**2. ELECTIVE COURSE.**

History of Diplomacy of the United States.  
History of Treaties to which the United States has  
been a party.  
Administrative Law.  
Statistics and Social Economics.

**3. CONFERENCES FOR REVIEW AND EXAMINATION.**

Constitutional Law of the United States.  
Conflict of Laws.  
International Law.  
Roman Law.  
Transportation and Interstate Commerce Law.  
Political History and Political Geography.

**4. REGULAR COURSE, SECOND YEAR.**

Political Science.  
Comparative Jurisprudence.  
Laws of India, Egypt, Palestine, and Greece.  
Roman Law to and including the time of Justinian.  
General View of the Law in Europe during the  
Middle Ages.  
The extension of the Roman Law into some of the  
Modern States.

Common Law of England ; its history and extension into some of the Modern States.

Jurisprudence of England and her Colonies ; France, Germany, Austro-Hungary, Italy, and Spain.

International Law.

Latin and French, German or Spanish (special).

5. ELECTIVE COURSE.

History of Diplomacy of the United States.

International Arbitration.

History of European Diplomacy and Treaties.

International Trade.

Finance.

6. CONFERENCES FOR REVIEW AND EXAMINATION.

Political Science.

Comparative Jurisprudence.

International Law.

**DIPLOMATIC SECTION.**—Leading to the degree of Master of Diplomacy. Two years.

1. REGULAR COURSE, FIRST YEAR.

Political History.

Political Geography.

History of Diplomacy of the United States.

History of Treaties to which the United States has been a Party.

International Law.

Commercial Geography.

Statistics and Social Economics.

French, German, or Spanish (special).

2. ELECTIVE COURSE.

Constitutional Law of the United States.

Comparative Constitutional Law.

Conflict of Laws.

Administrative Law.

Colonial Law.



3. CONFERENCES FOR REVIEW AND EXAMINATION.

Political History and Political Geography.  
History of Diplomacy of the United States.  
History of Treaties to which the United States has  
been a Party.  
International Law.  
Commercial Geography.  
Statistics and Social Economics.

4. REGULAR COURSE, SECOND YEAR.

Political Science.  
History of Diplomacy of the United States.  
Organization of the State Department.  
Duties of Ambassadors, Ministers, and Consuls.  
International Arbitration.  
History of European Diplomacy and Treaties.  
European Diplomats.  
International Law.  
International Trade and Commercial Geography.  
Finance.  
French, German, or Spanish (special).

5. ELECTIVE COURSE.

Laws of Ancient Nations.  
Common Law of England.  
Course in Comparative Jurisprudence.

6. CONFERENCE FOR REVIEW AND EXAMINATION.

Political Science.  
History of Diplomacy of the United States.  
Organization of the State Department.  
Duties of Ambassadors, Ministers, and Consuls.  
International Arbitration.  
History of European Diplomacy and Treaties.  
International Law.  
International Trade and Commercial Geography.  
Finance.

## METHOD OF INSTRUCTION AND STUDY.

Professors will conduct the study of the subject to which they are assigned by lectures, required courses of reading, and class discussions and conferences. Where a subject is divided into different branches or subdivisions, special lecturers will be introduced who are specially qualified to speak upon the subject assigned.

All subjects will be studied historically and comparatively and with a view to arriving at the present conditions and state of the law.

Class discussions and conferences will follow each lecture, and students will be encouraged to make original research and report their work to the class.

**COMPARATIVE JURISPRUDENCE.** This course will begin with the study of the laws of primitive people, the laws of India, Egypt, Palestine, and Greece; following this with a study of the Roman Law as derived from Greece and developed in Rome itself, down to the time of Justinian; then taking a general view of the law in Europe during the Middle Ages and tracing the Roman Law to the modern nations in which it now prevails. The rise of the Common Law and its extension to the nations in which it prevails will be carefully considered, and then the jurisprudence of the great modern States will be studied, giving to each a special lecture course, with class discussions. The relations of England to her colonial empire, and the federal system existing in Canada will receive special attention. All statutory laws which have a bearing upon the exercise of national power and which affect the relations of nations with each other, as well as the fundamental law, will be studied in each course.

This subject will be under the general supervision of the Dean, and lecturers will be appointed upon the jurisprudence of each nation.

**COMPARATIVE CONSTITUTIONAL LAW.** This subject will be studied by first considering in a thorough and comprehensive manner the subjects and the scope of the Constitution of the United States; next taking the constitutions of other nations, studying their sources and subjects, comparing their provisions

in the light of judicial interpretation by the highest courts of the country with the Constitution of the United States as construed by the Supreme Court of the United States, giving the student a thorough knowledge of the statement of constitutional law in the various countries, the scope of each, the subjects treated, the judicial construction, and the points in which our Constitution differs from that of other nations.

**INTERNATIONAL LAW.** This subject will be studied with reference to its sources, its sanctions, its present condition, and the lines and scope of its probable development.

**HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.** The course of lectures on American Diplomacy will embrace the duties of ambassadors and ministers; duties of consuls; treaties, their method of negotiation, various forms of, attitude of Congress, rulings of Supreme Court, and historical sketch of most important American treaties; arbitration, principles of, organization and method of procedure; and the Monroe Doctrine.

**HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.** Approaching diplomacy not merely as the science of the relations of sovereign States and the art of conducting negotiations between them, but primarily as the actual transaction of international business, the course of instruction will aim to show what European diplomacy really is by the examination of its history. As all important international transactions are summed up and embodied in definite treaties and conventions, the subject can be most profitably discussed by an analysis of these documents, supplemented by an account of the persons, interests, events, forms, ceremonies, and negotiations that have contributed to their development. By this method it is hoped that it may be possible not only to derive inductively the principles of diplomacy as an art and as a science, but also to present an exposition of the present international relations of Europe as determined by the great treaties, from the Congress of Westphalia to the Congress of Berlin, showing the existing affinities, antagonisms, and tendencies of the chief European powers.

**POLITICAL HISTORY AND SCIENCE; POLITICAL GEOGRAPHY IN ITS RELATION TO POLITICAL HISTORY.** The work in this depart-

ment is designed to put the student in possession of the main results of political development, enabling him to follow the course of history, both in its geographical and in its political movement, with special reference to the structure and influence of the States whose work has been worth most to the world.

**FINANCE.** This subject will be treated broadly with reference to international relations in commerce and banking. It will consider the nature and functions of money and credits and their international circulation; also the subject of Public Finance, including the sources of government revenues, bond issues, taxation, the disbursement of the revenues, and the organization of the Treasury Department.

**INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.** This course will treat of the products of the United States which are the subjects of international trade; where like products are grown or manufactured, and the markets for the same, giving the general currents or geography of trade and commerce and showing how affected by treaties and legislation, and the services of diplomatic and consular agents of the United States.

**TRANSPORTATION AND INTERSTATE COMMERCE LAW.** This subject will be treated historically, beginning with the public highway, the use of navigable waters, and the construction and operation of canals and railroads; observing the rights of the public; the relations of owners of railroads to the management and the public; theory and practical working of competition and combination; legislative control, and reviewing the Interstate Commerce Law and the decisions thereunder.

**STATISTICS AND SOCIAL ECONOMICS.** The aim will be to teach the principles, theory, and practice of the statistical method, illustrating its use and abuse in presenting data relating to population, production, commerce, wages, prices, crime, etc. Under social economics the course will deal with principles of social economics, elements of industrial society, systems of industry, evolution of manufactures, the factory system, the regulation of labor, strikes, arbitration, effects of machinery, prison labor, coöperation, savings institutions, labor legislation, labor organizations, socialism, etc., etc.

## HISTORICAL.

At the annual meeting of the Board of Trustees of the University in June, 1898, an ordinance was adopted establishing, as a department of the University, "The School of Comparative Jurisprudence and Diplomacy."

This school was opened with appropriate ceremonies at the University November 15, 1898. President McKinley, with members of his Cabinet and many other distinguished men in public life, were present. Addresses were delivered by B. L. Whitman, D. D., President of the University; Charles W. Needham, LL. M., Dean; Hon. John M. Harlan, LL. D., Associate Justice of the Supreme Court of the United States; Hon. David J. Brewer, LL. D., Associate Justice of the Supreme Court of the United States; Hon. Lyman J. Gage, Secretary of the Treasury; Sir Wilfrid Laurier, Premier of Canada, and Hon. John W. Foster, ex-Secretary of State.

On January 3, 1899, Law Lecture Hall was completed and dedicated. This building is located at 1420 H Street, adjoining University Hall; it is very complete, having three lecture-rooms, a large library, and ample office rooms, the entire building being devoted to the use of the Schools of Law.

## OBJECTS.

The design of this school is to afford a training in the subjects of higher legal knowledge, the political history of the world, the science and practice of diplomacy, and international law. Its courses are intended for lawyers, for students of jurisprudence and diplomacy, for persons who desire to fit themselves for the public, diplomatic, and consular service of the United States, and for those who desire a broad culture upon the larger questions of public life in order that they may better acquit themselves as journalists, legislators, and molders of public opinion upon the national and international issues of the day. To be an international lawyer or diplomatist one must, in addition to an education which makes one a scholar and lawyer, have special knowledge of the higher and broader subjects of

the law and the intercourse between states and nations; to be influential in any public career a man in this day must have a knowledge of political history, the diplomatic relations which have existed between states and nations, the manner in which international controversies have been settled, the currents of international trade and commerce, the general principles of finance as held by civilized nations, and the modern methods of settling international affairs. It is the special object and purpose of this school to furnish such instruction and opportunities for study at the national capital, where are to be found the archives containing the history of these subjects and the men who have been called to public life by reason of their special fitness to deal with these questions. From among these public men our professors and lecturers are chosen, and these archives and libraries are open to our students.

### ADMISSION.

Applicants who have taken the degree of Bachelor of Laws in this or any other university or law school requiring three years of study will be admitted to the first year of the course as candidates for the degree of Master of Laws.

Applicants who have taken the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Philosophy, or Bachelor of Laws in the Columbian University or any other university requiring an equal amount of study for the degree, and all others who have done work equivalent to that required for either of these degrees, and who pass a satisfactory examination before the Faculty of the School, are entitled to admission to the two-years' course as candidates for the degree of Master of Diplomacy or the degree of Doctor of Civil Law.

Satisfactory evidence of degrees taken or equivalent work done will be required in all cases.

Students who have received the degree of Doctor of Civil Law in this school may enter for the degree in Diplomacy, taking the same in one additional year.

Any person approved by the Dean may attend one or more courses of lectures in the school, have the benefit of the examinations, and receive a certificate for the work done.

**LANGUAGES.** A knowledge of Latin is regarded as essential in both of the law courses to enable students to properly pursue the history of the law. In addition to Latin, one of the modern languages, either French, German, or Spanish, will be required of applicants for the degree of Doctor of Civil Law, and a knowledge of either French, German, or Spanish will be required of those taking the degree of Master of Diplomacy. Students who have not received sufficient instruction in the languages required may take the same during their course, in the Department of Languages of the University. A special tuition is charged for each language taught.

### DEGREES AND THESES.

The degree of Master of Laws will be conferred upon students taking the prescribed course and passing the required examinations.

The degrees of Doctor of Civil Law and Master of Diplomacy will be conferred upon students who take the courses prescribed therefor, pass the required examinations, and submit satisfactory and creditable theses upon subjects covered by some part of the courses.

### EXAMINATIONS.

Examinations will be held at the conclusion of each subject. A thesis will be required of all students who are candidates for the degrees of D. C. L. and M. Dip. upon a topic to be selected by the student and approved by the Faculty.

### PRIZE.

A prize, offered by the Edward Thompson Company, of a set of the Encyclopedia of Law, first or second editions, or a set of the Encyclopedia of Pleading and Practice, is awarded to the student in this school who shall write the best thesis on some legal subject, to be assigned by the Faculty.

## FEES.

The tuition fee is eighty dollars for each year, payable in advance, monthly or quarterly, at the option of the student.

Students will be required to present tickets showing the payment of tuition fees before admission to the lectures.

Printed synopses and publications issued in connection with the work are furnished to students at cost.

Students proposing to withdraw from the School of Comparative Jurisprudence and Diplomacy will inform the Registrar to that effect. In the absence of such notification no claims for exemption from fees will be allowed.

Students taking special courses only will be charged fifteen dollars for each subject.

Regular students taking the languages will be charged an extra fee for each language taken.

The fee for diploma is ten dollars, and a library fee of two dollars per year is charged.

**NOTICE.**—*Increase of tuition fee.*

*Students matriculating for the Academic year beginning October 7, 1901, and thereafter will be charged a tuition fee of one hundred dollars per annum.*

*Prize Awards, 1899.*

A. T. Britton Prize.....Galen L. Tait.

Edward Thompson Company Prize.....John T. Doyle.

For further information and application blanks for admission, address the SECRETARY OF THE SCHOOLS OF LAW, 1420 H Street, Washington, D. C.



STUDENTS, 1899-1900.

*Second Year.*

Name.	State.	Address.
Able, R. Felder.....	S. C....	911 M Street. LL. B., Columbian University. LL. M., Columbian University.
Allen, Charles Kissam.....	N. Dak.	1828 Jefferson Place. LL. B., National University. LL. M., National University. LL. M., Columbian University.
Bingham, Goundry W.....	D. C....	802 11th Street. LL. B., Georgetown University. LL. M., Columbian University.
Bynum, Dixon H.....	Ind ....	Interstate Com. Co'n. LL. B., Columbian University. LL. M., Columbian University.
Cahill, Thaddeus.....	N. Y....	2102 18th Street. LL. B., Columbian University. LL. M., Columbian University.
Call, Lewis W . . . . .	Kans...	1249 Kenesaw Ave. B. S., Kansas State Agricultural College. LL. B., Columbian University. LL. M., Columbian University.
Chesley, Willoughby S.....	Md.....	1214 12th Street. LL. B., Columbian University. LL. M., Columbian University.
Clark, Charlton M.....	Miss....	620 I Street. LL. B., National University. LL. M., Columbian University.
Colladay, Edward Francis.....	Kans...	1234 I Street. LL. B., Columbian University. LL. M., Columbian University.
Dean, Charles Ray.....	Ill.....	915 O Street. Ph. B., University of Chicago. LL. B., Columbian University. LL. M., Columbian University.
Dennis, Thomas Fletcher.....	Ill.....	1615 Florida Ave. A. M., Illinois College. LL. M., Columbian University.

Name.	State.	Address.
Disch, Henry G.....	Wis....	153 Heckman St., S. E.
LL. B., Columbian University.		
LL. M., Columbian University.		
Doyle, John T.....	N. Y....	2107 Wyoming Ave.
LL. B., Columbian University.		
LL. M., Columbian University.		
Fukuda, Tatsugoro.....	Japan..	617 H Street.
Gray, John Pinkham.....	Idaho..	1621 13th Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
Halford, A. J.....	Ind....	1622 22d Street.
Hamner, G. W.....	Ala.....	916 H Street.
A. M., Hiwassee College, Tenn.		
A. B., Hiwassee College, Tenn.		
LL. B., University of Alabama.		
LL. M., Georgetown University.		
Ph. D., Columbian University.		
Harris, John T.....	Mo.....	940 K Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
Healy, Peter J.....	Minn...	Care U. S. Senate.
LL. M., Columbian University.		
Hemmings, Frederick Leith...	Ill.....	1461 Florida Avenue.
LL. B., Columbian University.		
LL. M., Columbian University.		
Holcombe, John W.....	Ind.....	1829 Corcoran Street.
A. B., Harvard University.		
LL. B., Columbian University.		
Jackson, E. Hilton.....	D. C....	809 Thirteenth St.
A. M., Columbian University.		
LL. B., Columbian University.		
LL. M., Columbian University.		
Johnson, Livingston S.....	Va.....	1460 Corcoran Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
Kellogg, Charles Jirah. ....	La.....	1227 M Street.
LL. B., National University.		
LL. M., National University.		
LL. M., Columbian University.		
Kiggins, Frank M. ....	Tenn...	1141 12th Street.
LL. B., University of Georgetown.		
LL. M., University of Georgetown.		
LL. M., Columbian University.		

# SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 185

Name.	State.	Address.
Killam, Cecil.....	N. S....	1004 M Street. A. M., Mt. Allison University. LL. B., Dalhousie Law School.
Kramer, Albert Ludlow.....	Pa.....	1129 14th Street. LL. B., University of Pennsylvania.
Linkins, Charles.....	D. C....	1923 G Street. LL. B., Columbian University. LL. M., Columbian University.
Matthews, Charles Eugene.....	Okla....	Sixth Auditor's Off. LL. B., Columbian University. LL. M., Columbian University.
McKinley, J. William.....	Ohio ...	1351 Harvard Street. LL. B., National University. LL. M., National University.
Miller Claude E.....	Pa.....	1339 15th Street. LL. B., Columbian University. LL. M., Columbian University.
Nelms, William H.....	Ill.....	70 D Street, N. E. LL. M., Georgetown University. LL. M., Columbian University.
Phair, Philip De Witt.....	Maine..	218 North Capitol St. B. Litt., Trinity College. A. B., Harvard University. A. M., Harvard University.
Pool, Solomon C.....	N. C....	1209 H Street. LL. B., Georgetown University. LL. M., Georgetown University.
Ruffin, Thomas.....	N. C....	1023 Vermont Ave. LL. B., Georgetown University. LL. M., Georgetown University.
Schoeverling, Wm. Louis Willer.	Wis.....	1004 M Street. LL. B., Kent College of Law. LL. M., Chicago Law School.
Smith, Charles Magill.....	Va.....	1117 G Street. LL. B., National University. LL. M., National University. LL. M., Columbian University.
Smith, Walter Scott.....	Ala.....	200 D Street. A. B., Lineville College. LL. B., Columbian University. LL. M., Columbian University.

Name.	State.	Address.
<b>Stamper, William S</b> .....	Tenn ...	1234 I Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
<b>Strasburger, Milton Z.</b> .....	D. C....	631 H Street.
LL. B., Georgetown University.		
LL. M., Georgetown University.		
<b>Tait, Galen L.</b> .....	Neb ....	1718 Q Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
<b>Tindall, Philip.</b> .....	D. C....	2103 California Ave.
LL. B., Columbian University.		
LL. M., Columbian University.		
<b>Via, Lemuel R.</b> .....	Va.....	802 11th Street.
LL. B., Georgetown University.		
LL. M., Columbian University.		
<b>Watts, Reuben B.</b> .....	Ala.....	216 11th Street.
LL. B., Georgetown University.		
LL. M., Columbian University.		
<b>Weare, Joseph.</b> .....	Ill.....	2020 F Street.
B. S. C. E., University of Michigan.		
<b>Weaver, Harry O.</b> .....	Ohio ...	802 A street, N. E.
LL. B., Columbian University.		
LL. M., Columbian University.		

*First Year.*

Name.	State.	Address.
<b>Ames, Edward Winslow.</b> .....	Mass....	717 10th Street.
A. B., Harvard University.		
<b>Andrews, A. G.</b> .....	Vt.....	1414 15th Street.
C. E., Norwich University.		
<b>Barrus, George Warren.</b> .....	N. H....	314 E Street
LL. B., Columbian University.		
<b>Benfer, James P.</b> .....	Ohio....	2151 L Street.
LL. B., Georgetown University.		
<b>Bishop, Roswell F</b> .....	Mich....	132 A Street, N. E.
Ph. B., University of Michigan.		
<b>Brockett, Bluford W.</b> .....	Md.....	3425 Holmead Ave.
LL. B., Columbian University.		
<b>Butts, Joseph Waddell.</b> .....	D. C....	918 T Street.
LL. B., Columbian University.		

# SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 187

Name.	State.	Address
Chapman, Charles McC.....	N. Y....	725 19th Street. LL. B., Columbian University.
Chamberlin, J. Morrill.....	Va.....	1309 20th Street. LL. B., Georgetown University. LL. M., Georgetown University.
Choate, Warren R.....	Md.....	525 11th Street. LL. B., National University. LL. M., National University.
Clark, Charles C.....	Pa.....	U. S. Dep't Agric. Attorney-at-Law.
Cooke, Harry L.....	Tenn....	630 I Street. LL. B., Columbian University.
Corby, Joseph Edgar.....	Mo.....	1418 31st Street. LL. B., University of Notre Dame.
Crooks, James W.....	Ill.....	303 B Street, S. E. LL. B., Columbian University.
Crosby, C. F.....	Va.....	1350 Yale Street. LL. B., Georgetown University. LL. M., Georgetown University.
Davis, Thomas J.....	W. Va..	220 3d Street. LL. B., West Virginia University.
Esterly, Frank C.....	Minn...	1115 E. Cap. Street. LL. B. Columbian University.
Fouse, George Congdon.....	D. C....	712 7th Street, S. E. Ph. B., Yale University. C. E., Yale University. LL. B., Columbian University.
Frost, Claude Schurz .....	N. Y....	Dep't of Justice. LL. B., Columbian University.
Gale, William Holt.....	N. Y....	1303 N Street. Ph. B., Yale University.
Glover, L. K. C.....	Va. ....	1731 13th Street. LL. B., Columbian University.
Green, Henry Duncan, Jr.....	Ala.....	1705 M Street. LL. B., Columbian University.
Griswold, Stewart C.....	Mich....	1403 H Street. LL. B., Columbian University.
Hartmann, Charles.....	Mich....	932 O Street. LL. B., Columbian University.
Hawksworth, Alfred T.....	N. H. ...	910 I Street. LL. B., Columbian University.

Name.	State.	Address.
Hill, Joseph C.....	Va. ....	
Hume, Robert Scott.....	Va.....	1235 Mass. Avenue.
A. B., Yale University.		
Husted, Glenn Edward.....	Mich. ...	Dep't of Justice.
LL. B., Columbian University.		
Ion, Theodore P... ..	D. C....	28 2d Street, S. E.
LL. B., Paris; Juris. D., Catholic University of America.		
Kennedy, William G.....	W. Va..	495 H Street, S. W.
LL. B., University of West Virginia.		
Kline, Aubrey J.....	Va.....	1126 8th Street.
LL. B., Columbian University.		
Kodera, Kenkichi.....	Japan..	617 H Street.
Langley, John W.....	Ky.....	420 6th Street.
LL. B., Columbian University.		
LL. M., Columbian University.		
Lienallen, Thomas T.....	Mo.....	910 I Street.
LL. B., Columbian University.		
Mather, Franklin Davis.....	Cal.....	414 6th Street.
McClure, James B.....	Iowa....	154 A Street, N. E.
LL. B., Columbian University.		
McHarg, Ormsby.....	N. Dak.	1534 22d Street.
LL. B., University of Michigan.		
McMullen, Adam.....	Neb. ...	1406 S Street.
A. B., University of Nebraska.		
LL. B., Columbian University.		
McRoberts, Charles Gregory...	D. C....	302 C Street.
LL. B., Columbian University.		
Owen, Charles Wesley .....	Mich. ...	726 12th Street.
LL. B., Columbian University.		
Parkes, George P .....	N. D....	1013 L Street.
LL. B., Columbian University.		
Patterson, Alvah W.....	Oreg ...	223 7th Street, N. E.
LL. B., Columbian University.		
Peppers, David J.....	Ill.....	1012 14th Street.
Peyser, Julius I.....	D. C....	1314 7th Street.
LL. B., Georgetown University.		
Pierce, Harry Alleman.....	D. C....	610 R Street.
LL. B., Columbian University.		

# SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 189

Name.	State.	Address.
<b>Raines, Benjamin F.</b> .....	<b>Va.</b> .....	<b>802 11th Street.</b>
LL. B., National University.		
<b>Rask, H. G.</b> .....	<b>N. Y.</b> ...	<b>The Dewey.</b>
LL. B., Georgetown University.		
<b>Rohrback, Howard Lemon</b> .....	<b>Pa.</b> .....	<b>1209 Q Street.</b>
LL. B., Columbian University.		
<b>Rowland, Hugh Black</b> .....	<b>D. C.</b> ...	<b>2115 California Ave.</b>
LL. B., Georgetown University.		
LL. M., Georgetown University.		
<b>Ruoff, Henry Woldmar</b> .....	<b>Mass.</b> ...	<b>811 9th Street.</b>
A. B., University of Indiana.		
Harvard University, 1891-1894.		
<b>Shockley, William Thomas</b> ...	<b>Ga.</b> .....	<b>1130 12th Street.</b>
A. B., North Georgia Agricultural College.		
<b>Smith, Clarence B.</b> .....	<b>Mich</b> ...	<b>805 A Street, S. E.</b>
M. S., Michigan Agric'l College.		
<b>Spaulding, John Cecil</b> .....	<b>Mich</b> ...	<b>1637 R Street.</b>
A. B., University of Michigan.		
LL. B., Columbian University.		
<b>Stallcup, James A.</b> .....	<b>Mo.</b> .....	<b>1403 H Street.</b>
LL. B., Columbian University.		
<b>Stummers, Thomas M.</b> .....	<b>Ohio</b> ....	<b>1757 Madison Street.</b>
<b>Towson, Richard M.</b> .....	<b>Va.</b> ....	<b>1122 Vermont Ave.</b>
LL. B., Columbian University.		
<b>Twinn, Clark James</b> .....	<b>N. Y.</b> ...	<b>1722 15th Street.</b>
LL. B., Columbian University.		
<b>Tyssowski, Joseph G.</b> .....	<b>D. C.</b> ...	<b>1431 R. I. Avenue.</b>
LL. B., Columbian University.		
<b>Vieth, Henry A.</b> .....	<b>Wis.</b> ....	<b>Agricultural Dep't.</b>
LL. B., Columbian University.		
<b>Walters, Harris A.</b> .....	<b>Ill.</b> ....	<b>The Dewey.</b>
LL. B., Georgetown University.		
<b>Wells, Albert Coulter</b> .....	<b>Pa.</b> .....	<b>1203 11th Street.</b>
LL. B., Columbian University.		
<b>West, Goldsmith Bernard</b> .....	<b>D. C.</b> ...	<b>Washington Times.</b>
LL. B., Georgetown University.		
LL. M., Georgetown University.		
<b>Westcott, Charles Drake</b> .....	<b>Pa.</b> .....	<b>1414 20th Street.</b>
LL. B., Columbian University.		

Name.	State.	Address.
Wheeler, Levi Woodbury . . . . .	D. C. . . .	518 M Street. LL. B., Columbian University.
Wyman, Bayard . . . . .	Mich. . . .	222 3d Street. LL. B., University of Michigan.

*Special Students.*

Name.	State.	Address.
Baker, Dwight Wood . . . . .	R. I. . . .	1906 H Street. A. B., Brown University.
March, Alden . . . . .	N. Y. . . .	1421 K Street.

*Recapitulation.*

Second, or Senior Year . . . . .	46
First, or Junior Year . . . . .	65
Special Students . . . . .	2
<b>Total . . . . .</b>	<b>113</b>



# THE MEDICAL SCHOOL.

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## THE FACULTY.

\* REV. BENAIHAH L. WHITMAN, D. D., LL. D.,  
*President.*

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

EMIL A. DE SCHWEINITZ, PH. D., M. D.,  
*Dean,*

Professor of Chemistry and Toxicology.

J. FORD THOMPSON, M. D.,  
Professor of Surgery and Clinical Professor of Surgery.

WILLIAM W. JOHNSTON, M. D.,  
Professor of the Theory and Practice of Medicine and Professor  
of Clinical Medicine.

ALBERT F. A. KING, A. M., M. D.,  
Professor of Obstetrics and the Diseases of Women and Children,  
and Dean Emeritus.

D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy and Clinical Ophthalmology.

WILLIAM P. CARR, M. D.,  
Professor of Physiology and Professor of Clinical Surgery.

STERLING RUFFIN, M. D.,  
Professor of Materia Medica and Therapeutics and Clinical  
Professor.

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\* Resigned March 31, 1900.

H. C. YARROW, M. D.,  
Professor of Dermatology and Clinical Dermatology.

HENRY L. E. JOHNSON, M. D.,  
Professor of Gynecology and Professor of Clinical Gynecology.

THOMAS E. McARDLE, A. M., M. D.,  
Professor of Minor Surgery.

WILLIAM K. BUTLER, A. M., M. D.,  
Professor of Ophthalmology and Clinical Ophthalmology.

---

Professor of Medical Jurisprudence.

CHARLES W. RICHARDSON, M. D.,  
Professor of Laryngology and Otology and Professor  
of Clinical Laryngology and Otology.

EDMUND L. TOMPKINS, M. D.,  
Professor and Clinical Professor of Nervous Diseases.

A. R. SHANDS, M. D.,  
Professor of Orthopedic Surgery.

JOHN VAN RENSSELAER, M. D.,  
Professor of Surgical Pathology and Professor of Clinical  
Surgery.

WALTER REED, M. D.,  
Professor of Bacteriology and Pathology.

W. F. R. PHILLIPS, M. D.,  
Professor of Hygiene.

GEORGE N. ACKER, M. D.,  
Professor and Clinical Professor of Pædiatrics and Professor of  
Clinical Medicine.

G. WYTHE COOK, M. D.,  
Professor of Clinical Medicine.

J. W. BOVÉE, M. D.,  
Professor of Clinical Gynecology.

RANDOLPH B. CARMICHAEL, M. D.,  
Professor of Clinical Dermatology.

T. RITCHIE STONE, M. D.,  
Clinical Professor of Genito-Urinary Diseases.

GEORGE W. FOSTER, M. D.,  
Professor of Mental Diseases.

W. S. WASHBURN, M. D.,  
Professor of Normal Histology.

T. A. CLAYTOR, M. D.,  
Professor of Clinical Medicine.

A. B. RICHARDSON, M. D.,  
Clinical Professor of Mental Diseases.

---

DEMONSTRATORS.

W. F. R. PHILLIPS, M. D.,  
Demonstrator of Anatomy.

E. G. SEIBERT, M. D.,  
Senior Demonstrator of Chemistry.

A. L. LAWRENCE, M. D.,  
Junior Demonstrator of Chemistry.

FRANCIS P. MORGAN, M. D.,  
Assistant to the Chair of Materia Medica and Therapeutics, in  
charge of the Pharmacy Laboratory.

L. W. GLAZEBROOK, M. D.,  
Curator of the Museum and Demonstrator of Pathological  
Anatomy.

JOHN B. NICHOLS, M. D.,  
Demonstrator of Normal Histology.

VIRGIL B. JACKSON, M. D.,  
GEORGE B. HEINECKE, M. D.,  
R. WASHINGTON, M. D.,  
A. L. LAWRENCE, M. D.,  
E. E. RICHARDSON, M. D.,  
B. F. TIEFENTHALER, M. D.,  
W. N. FISHER, M. D.,  
J. HOWARD ALLEN, M. D.,  
GEORGE McLAUGHLIN, M. D.,  
Assistant Demonstrators of Anatomy.

GEORGE B. HEINECKE, M. D.,  
LINCOLN JOHNSON, M. D.,  
Prosectors to the Chair of Anatomy.

JOHN R. WELLINGTON, M. D.,  
FRANK LEECH, M. D.,  
Demonstrators of Minor Surgery.

EDWARD E. MORSE, M. D.,  
Demonstrator of Obstetrics.

JAMES CARROLL, M. D.,  
Senior Demonstrator of Pathology and Bacteriology, and  
Associate in Clinical Laboratory Instruction.

FRANCIS R. HAGNER, M. D.,  
Junior Demonstrator of Pathology and Bacteriology.

B. L. HARDIN, M. D.,  
Associate in Physical Diagnosis.

THOMAS DOWLING, JR., M. D.,  
Assistant to the Chair of Practice.

O. A. McKIMMIE, M. D.,  
Examiner of Applicants for Matriculation.

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THE UNIVERSITY HOSPITAL.

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MEDICAL BOARD.

J. FORD THOMPSON, M. D.  
WILLIAM W. JOHNSTON, M. D.  
ALBERT F. A. KING, A. M., M. D.  
D. KERFOOT SHUTE, A. B., M. D.  
E. A. DE SCHWEINITZ, Ph. D., M. D.  
WILLIAM P. CARR, M. D.  
STERLING RUFFIN, M. D.

EXECUTIVE COMMITTEE OF THE HOSPITAL AND DISPENSARY.

W. W. JOHNSTON, M. D., Chairman.  
A. F. A. KING, M. D.                      J. FORD THOMPSON, M. D.  
G. WYTHE COOK, M. D., Sec'y.        C. W. RICHARDSON, M. D.  
Mrs. W. H. HORKE.

HOSPITAL AND DISPENSARY STAFF.

*Surgery.*

J. FORD THOMPSON, M. D.  
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and John Wellington, M. D. (in Dispensary). Assistant:  
F. R. Hagner, M. D.

*Medicine.*

WILLIAM W. JOHNSTON, M. D.

Associates: G. N. Acker, M. D., G. Wythe Cook, M. D., and  
T. A. Claytor, M. D. (in Dispensary). Assistants: B. L.  
Hardin, M. D., and Thomas Dowling, M. D.

*Obstetrics and Gynecology.*

A. F. A. KING, M. D.

Associates in Gynecology: H. L. E. Johnson, M. D., and J.  
Wesley Bovée, M. D. Assistants: H. S. Medford, M. D.,  
V. B. Jackson, M. D., and J. E. Jones, M. D.  
Associate in Obstetrics: E. E. Morse, M. D.

*Diseases of the Eye.*

D. K. SHUTE, M. D.

Associate: W. K. Butler, M. D. Assistant: W. N. Fisher, M. D.

*Diseases of the Throat and Ear.*

C. W. RICHARDSON, M. D.

Assistant: F. P. Morgan, M. D.

*Diseases of the Skin.*

H. C. YARROW, M. D.

Associate: R. B. Carmichael, M. D.

*Diseases of Children.*

T. E. MCARDLE, M. D.

Assistant: Frank Leech, M. D.

*Orthopedic Surgery.*

A. R. SHANDS, M. D.

*Diseases of the Nervous System.*

STERLING RUFFIN, M. D., E. L. TOMPKINS, M. D.

Assistant : A. L. Lawrence, M. D.

*Genito-Urinary Diseases.*

T. R. STONE, M. D.

Assistant : W. T. Burch, M. D.

*Clinical Laboratory.*

E. A. DE SCHWEINITZ, M. D.

Associate : James E. Carroll, M. D.

*Pathologist.*

WALTER REED, M. D., U. S. A.

Assistant : L. W. Glazebrook, M. D.

*Superintendent.*

Miss A. G. ODELL.

*Resident Physician.*

W. K. WARD, M. D.

**LECTURES.—FIRST YEAR, 1900-1901.  
BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANAT- OMY.				PRACTICAL ANAT- OMY.	PHARMACY.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30		CHEMISTRY. Lower Room.				CHEMISTRY. Lower Room.
6.30		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.
8.30	PHYSIOLOGY. Lower Room.				PHARMACY.	
9.30	PRACTICAL ANAT- OMY.		PRACTICAL ANAT- OMY.		PRACTICAL ANAT- OMY.	



**LECTURES.—SECOND YEAR, 1900-1901.  
BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	PHYSIOLOGY. Upper Room.	PRACTICAL ANAT- OMY.	MINOR SURGERY. Oct. 3 to Dec. 5.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8.30	PRACTICAL ANAT- OMY.		PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	PHARMACY.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.		HISTOLOGY. Laboratory.	PRACTICAL ANAT- OMY.	CHEMISTRY. Lower Room.
6.30	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	HISTOLOGY. Laboratory.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7.30	ANATOMY. Upper Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8.30	PHYSIOLOGY. Lower Room.		PRACTICAL ANAT- OMY.		PHARMACY.	

### LECTURES.—THIRD YEAR, 1900-1901. BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	SURGERY. Upper Room.	4.30. CLINICS. (Garfield.)	SURGERY. Upper Room.	4.30 CLINICS	SURGERY. Upper Room.	4.30. CLINICS. (University Hospi- tal.)
6.30	OBSTETRICS. Upper Room.	OPHTHALMOLOGY. Oct. 3 to Dec. 5 Upper Room.	OBSTETRICS. Lower Room	DENCE. Upper Room.	OBSTETRICS. Upper Room.	SURGICAL PATHOL- OGY. Oct. 7 to Dec. 9 Upper Room
7.30	BACTERIOLOGY. Laboratory	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory.	PRACTICE. Lower Room.	BACTERIOLOGY. Laboratory	CLINICAL. Laboratory.
8.30	BACTERIOLOGY Laboratory.	PHYSICAL DIAGNO- SIS.	BACTERIOLOGY. Laboratory		BACTERIOLOGY. Laboratory.	CLINICAL. Laboratory

### AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY	SATURDAY
5.30	SURGERY. Upper Room.	4.30. CLINICS.	4.30. CLINICS.	4.30. CLINICS.	SURGERY. Upper Room.	4.30. CLINICS.
6.30	OBSTETRICS. Upper Room	HYGIENE Jan. 4 to 25. MENTAL DISEASES. Jan 27 to Feb 17. Upper Room	CLINICAL- Laboratory.	HYGIENE. MENTAL DISEASES Upper Room.	OBSTETRICS. Upper Room	HYGIENE. MENTAL DISEASES. Upper Room.
7.30	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.	PATHOLOGY. Laboratory	PRACTICE. Lower Room.	PATHOLOGY. Laboratory.	PRACTICE. Lower Room.
8.30	PATHOLOGY. Laboratory.	PHYSICAL DIAGNO- sis.	PATHOLOGY. Laboratory.	DERMATOLOGY Jan. 4 to Mar. 16.	PATHOLOGY. Laboratory.	

LECTURES.—FOURTH YEAR, 1900-1901.  
BEFORE CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5-30	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.	SURGERY. Upper Room.	4.30, CLINICS.
6-30	OBSTETRICS. Upper Room.		OBSTETRICS. Lower Room.		OBSTETRICS. Upper Room.	
7-30	OTOLOGY AND LARYNGOLOGY. Oct. 5 to Nov. 19. Lower Room.	PRACTICE. Lower Room.	OTOLOGY AND LARYNGOLOGY.	PRACTICE. Lower Room.	OTOLOGY AND LARYNGOLOGY.	Oct 6 to Dec. 16. GYNECOLOGY. Upper Room.
8-30		ORTHOPÆDIC SURGERY. NERVOUS DISEASES. Upper Room.		ORTHOPÆDIC SURGERY. October 5 to 26. NERVOUS DISEASES. Oct. 2, to Nov. 19.		ORTHOPÆDIC SURGERY. NERVOUS DISEASES.

AFTER CHRISTMAS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5-30	SURGERY.	4.30, CLINICS.	4.30, PÆDIATRICS AND CLINICAL PÆDIATRICS. Children's Hospital.	4.30, CLINICS.	SURGERY.	4.30, CLINICS.
6-30	OBSTETRICS.				OBSTETRICS.	
7-30		PRACTICE.		PRACTICE.		PRACTICE.
8-30						

The seventy-ninth course of lectures begins on Monday, October 1, 1900.

The Introductory Lecture of the Course will be delivered by Professor Sterling Ruffin, on the 1st of October, and the regular lectures will continue throughout the session, beginning at 5.30 p. m. of each week day. The laboratories are open day and evening.

## DEPARTMENTS OF INSTRUCTION.

The system of instruction adopted by the Medical School of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otol-ogy, Laryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Pæ-diatrics, Minor Surgery, Histology, Pathological Histology, Or-thopedic Surgery, and Surgical Pathology.

Laboratory instruction is given in Chemistry, Histology and Pathological Histology, Bacteriology, Pharmacy, and Clinical Medicine.

## SURGERY.

### PROFESSOR THOMPSON,

Surgeon to the University Hospital, the Children's Hospital, and to the Gar-field General Hospital.

The course embraces Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical In-struction at the School.

As Professor Thompson is the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institu-tions.

Every effort is made to teach Surgery in accordance with the latest developments of scientific research. At the School opera-tions are performed upon the cadaver, and the uses of all im-portant surgical instruments and appliances are demonstrated in the same manner.

**MINOR SURGERY.**—Practical class instruction is given by Professor McArdle and his assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

## THEORY AND PRACTICE OF MEDICINE.

**PROFESSOR JOHNSTON,**

Physician to the University Hospital and Consulting Physician to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

The student is urged to pay special attention to the course in Histology during the second year, as this is essential to a proper understanding of the internal diseases of the human body. The courses in Pathology and Bacteriology should also receive the closest study, for without a clear knowledge of these subjects no satisfactory advance can be made.

The method of instruction employed in this subject is as follows:

1. Lectures at the School, with occasional recitations.
2. Clinical lectures at the University Hospital, with practical instruction in the art of diagnosis and in the methods of taking and recording histories of medical cases.
3. Demonstration of the use of instruments of research for the clinical study of the sputum, blood, feces, etc.

## OBSTETRICS AND GYNECOLOGY.

**PROFESSOR KING,**

Obstetrician to the Columbian University Hospital; one of the Consulting Physicians to the Children's Hospital, etc.

This course comprises a series of lectures on the Science and Art of Midwifery, and on the Diseases of Women. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books, so as to render them more easily intelligible, and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The Demonstrator of Obstetrics, Dr. Edward E. Morse, gives cases of labor to advanced

students, and demonstrates obstetric operations and allows students to perform these operations upon the manikin, under his direction. This course is limited to fourth-year students, and all are required to take it before becoming candidates for graduation.

In the Department of Gynecology the various instruments and appliances used in treating the diseases of women are exhibited and their uses fully explained. Clinical instruction in Surgical Gynecology will be given by Prof. H. L. E. Johnson at the Hospitals, where students will witness the various surgical operations required in gynecological cases.

## ANATOMY.

PROFESSOR SHUTE,

Ophthalmic Surgeon to the University Hospital and to the Washington Hospital for Foundlings.

This course of lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body may be acquired during the two courses of lectures, which each student attends, to qualify him for the practice of medicine, if at the same time he does his duty in the dissecting-room.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciop-ticon is also employed constantly to present photographic views of many regions of the body.

Special attention is given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the medical profession.

Public oral examinations are conducted by the lecturer from time to time.

The prosectors prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

PRACTICAL ANATOMY.—The dissecting-room of the School is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied. The room is open

during the day and night until 11 p. m., and on some occasions even later. It is under the direction of the Professor of Anatomy. The Demonstrator of Anatomy is present at stated hours to give personal attention to the students and properly to instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

## CHEMISTRY AND TOXICOLOGY.

PROFESSOR DE SCHWEINITZ,

In charge of Clinical Laboratory, University Hospital, and Director of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces:

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions, are studied.

Due attention is given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction is given in the general methods of qualitative and quantitative analysis, volumetric analysis, toxicology, urine analysis, water analysis, and special clinical analyses.

Opportunity for advanced work in biochemistry is afforded.

## PHYSIOLOGY.

PROFESSOR CARR,

Associate Surgeon to the University Hospital and Surgeon to the Central Dispensary and Emergency Hospital.

This subject is fully presented by a two years' course of lectures, and the lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Especial emphasis is given to those truths that have a practical value.

Physiological anatomy receives special attention, and is illustrated by charts, diagrams, working models, and anatomical

specimens in all cases, and by demonstrations upon anesthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy is also taught by Professor Washburn in the laboratory, and an opportunity is given students to do practical physiological work as far as their time will permit.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RUFFIN,

Associate in Nervous Diseases, University Hospital, and one of the Visiting Physicians to the Home for Incurables.

Instruction in this department extends through the first two years, and embraces:

1. The study of crude drugs and their preparations, and the art of prescribing.
2. The physiological action of drugs in the human system.
3. The practical application of drugs and other therapeutical agencies to the prevention and cure of disease and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is simplified and made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

## DERMATOLOGY.

PROFESSOR YARROW,

Dermatologist to the University Hospital and one of the Consulting Physicians to the Garfield Hospital and Woman's Clinic.

Professor Yarrow gives lectures on this subject, illustrated by diagrams, models, photographic illustrations of disease from



life, and also the exhibition of cases. In connection with the course clinical instruction is given at the Central Dispensary and Emergency Hospital and the University Hospital by Dr. Carmichael, where an abundance of material affords excellent clinical advantages.

### PÆDIATRICS.

#### PROFESSOR ACKER,

Associate Physician to the University Hospital and Physician to the Children's Hospital.

The Professor lectures upon diseases of infants and children and the importance of their proper management by diet and hygiene.

### GYNECOLOGY.

#### PROFESSOR JOHNSON,

In Charge of the Department of Gynecology, Central Dispensary and Emergency Hospital, Associate Gynecologist, University Hospital.

The Professor amplifies his lectures on the diseases peculiar to women by clinical instruction in physical diagnosis at the Emergency Hospital each Sunday afternoon, from October to May. Operative work will be demonstrated as frequently as possible. The Professor has organized in connection with his service an outdoor maternity clinic, which is open to students.

### MINOR SURGERY.

#### PROFESSOR MCARDLE,

Pædiatrician, University Hospital, and one of the Assistant Physicians to the Children's Hospital.

The course in Minor Surgery consists of lectures and practical demonstrations concerning bandaging, preparation of materials used in aseptic and antiseptic dressings, preparations for aseptic or antiseptic operations, strapping, vaccination, and other minor surgical procedures. Under the supervision of assistants, the students themselves apply the various splints, bandages, surgical dressings, etc.

## OPHTHALMOLOGY.

PROFESSOR BUTLER,

Ophthalmologist at Garfield Hospital, in Charge of the Lutheran Eye and Ear Infirmary, and Associate Ophthalmologist, University Hospital.

The Professor gives a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

## MEDICAL JURISPRUDENCE.

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This course deals with the relations of Physicians to matters under legal investigation. It covers as fully and practically as possible the more important subjects of forensic medicine. Students are taught to give expert testimony and how to conduct themselves as medical witnesses.

## LARYNGOLOGY AND OTOTOLOGY.

PROFESSOR RICHARDSON,

Laryngologist to the University, the Providence, and the Episcopal Eye, Throat, and Ear Hospitals.

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

## NERVOUS DISEASES.

PROFESSOR TOMPKINS,

In charge of the Department of Nervous Diseases at the Central Dispensary and Emergency Hospital; Associate in Nervous Diseases, University Hospital.

Lectures are given upon the more common and important of these affections.

## SURGICAL PATHOLOGY.

PROFESSOR VAN RENSSELAER,

Associate Surgeon, University Hospital, and one of the Surgeons to the  
Garfield Hospital.

The Professor gives a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

## ORTHOPEDIC SURGERY.

PROFESSOR SHANDS,

Orthopedist, University Hospital.

This course embraces didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction of treatment of the same according to the most modern orthopedic methods.

Special attention is given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures. There are afforded also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction is given in the application and use of plaster of Paris in treatment of Pott's Disease, Scoliosis, Club Feet, etc.

## HYGIENE.

PROFESSOR PHILLIPS,

In charge of the Section of Climatology, U. S. Weather Bureau.

The course in Hygiene is directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation of health and the prevention of disease; it comprises also the consideration of the laws of hygiene as applied to the individual and to the community.

## PATHOLOGY AND BACTERIOLOGY.

PROFESSOR REED,

Pathologist of the University Hospital, Curator of the Army Medical Museum, and Professor of Clinical and Sanitary Microscopy in the Army Medical School.

In this department the effort is made to give the student a practical knowledge, first, of the preparation of culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. After some familiarity with the biological characters of the pyogenic cocci has been acquired, the study of inflammation is next begun, so that the student may appreciate as fully as possible the several lesions which these microorganisms bring about in various tissues. Thereafter the courses in bacteriology and pathology are carried along, side by side, as much as possible, the specific lesions produced by a pathogenic bacterium being carefully studied in connection with its biological characters. During this course, which lasts from October to May, in addition to the process of inflammation, the diseases of the heart and blood-vessels, the lungs, the liver, kidneys, spleen, and intestines are studied in succession, as far as possible. For this purpose, sections illustrating the various diseases are carefully selected and given to the student, to be stained, mounted, and studied by himself under the immediate supervision of the instructor. These sections become thereafter the property of the student. The course terminates with the microscopical study of the several varieties of tumors.

## HISTOLOGY.

PROFESSOR WASHBURN.

The study of Histology is compulsory for students in the second year of their course. Special attention is given to the manipulation of the microscope, and to that part of the technique necessary for an intelligent study of tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of the body. The Histological Laboratory, open both day and evening, is equipped with microscopes and

accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations are held at the close of the session.

## MENTAL DISEASES.

PROFESSOR FOSTER,

One of the Assistant Physicians to the Government Hospital for the Insane,  
St. Elizabeth.

A series of lectures is given upon the subject of insanity in its varied forms. Clinical instruction is also given at the hospital.

## PHARMACY.

DR. MORGAN.

Instruction is given in this course on the following subjects:  
1. The methods of making typical preparations of the Pharmacopœia. 2. Prescription writing. 3. The compounding of prescriptions. 4. Incompatibles and antidotes to poisons. These subjects are taught by practical laboratory work and exercises.

### • LABORATORY INSTRUCTION.

The laboratories are furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology, Clinical Medicine, and Pharmacy, as above described.

The Pathological Museum is equipped with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the Deputy Coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the collection.

## CLINICAL INSTRUCTION.

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, is required, and upon other clinics as indicated by the special clinical card. When the student presents himself for examination a certificate to this effect must be furnished.

### ADMISSION.

Candidates for matriculation are required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra and Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be matriculated.

Dr. O. A. M. McKimmie, 1333 N Street, N. W., will give further information in regard to instruction in Latin, Physics, etc.

During Dr. McKimmie's temporary absence from the city this work will be done by Dr. F. P. Morgan, 1230 9th Street.

### ADVANCED STANDING.

Students of other institutions who have attended one course of lectures in any regular medical school are placed upon the same footing with those who have attended one course in this School, and those who have attended two (or three) courses of lectures in any other regular college or colleges rank with those who have attended two (or three) courses in this institution, and the same privileges as regards examination are extended to them; they are admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

## GRADUATION.

Candidates for the degree of Doctor of Medicine must be of good moral character and at least twenty-one years of age; they must have studied medicine four years, and must have attended four courses of lectures, the subjects arranged as follows:

*First Year.*

Unless otherwise stated, numbers indicated below mean lecture hours per week.

Anatomy.—Two hours before, three hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; three hours' laboratory work.

Materia Medica and Therapeutics.—Three hours before, two hours after Christmas; one hour laboratory work.

Practical Anatomy.—Dissection-room open during the day and until 11 o'clock at night.

Examination at the end of the year upon the above-named subjects.

*Second Year.*

Anatomy.—Two hours before, three hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; four hours' laboratory work.

Materia Medica and Therapeutics.—Three hours before, two hours after Christmas.

Minor Surgery.—One hour, October 5 to December 5, in manikin-room.

Histology.—Laboratory.

Practical Anatomy.—Dissection-room open all day and until 11 o'clock at night.

Examination at the end of this year upon the above-named subjects.

*Third Year.*

Surgery.—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three hours after Christmas.

Obstetrics.—Three hours before, two hours after Christmas.

Dermatology.—One hour, from January 4 to March 16.

Ophthalmology.—One hour, from October 3 to December 5.

Bacteriology and Pathology.—Eight hours' laboratory work per week.

Surgical Pathology.—One hour, from October 7 to December 9.

Clinics.

Medical Jurisprudence.—One hour, October 4 to December 6.

Mental Diseases.—Three hours, January 27 to February 17.

Hygiene.—Three hours, January 4 to January 25.

Examination on the above-named subjects at the end of the year.

*Fourth Year.*

Surgery.—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three hours after Christmas.  
Clinics and laboratory instruction.

Obstetrics.—Three hours before, two hours after Christmas.

Gynecology.—One hour, from October 6 to December 6.

Nervous Diseases.—Three hours, from October 29 to November 19.

Pædiatrics.—One hour, and clinics from January to April.

Otology and Laryngology.—Three hours, from October 5 to November 19.

Orthopedic Surgery.—Three hours, from October 5 to October 26.

Clinics.

Final examination at the close of the fourth year upon the above-named subjects.

The candidate must have dissected for at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts.



He must have attended also two courses of clinical instruction in Medicine and Surgery.

One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination is both written and oral. The examination for the degree is held at the end of the session in May.

Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

Students who fail to pass the examinations in the spring are allowed a reëxamination in the following fall.

The diploma is granted only at the Annual Commencement, and the degrees are conferred by the authority of The Columbian University, incorporated by act of the Congress of the United States of America.

## THE UNIVERSITY HOSPITAL.

Clinical teaching is conducted in this hospital in conjunction with the didactic lectures in the various branches. The convenient location and the fact that the hospital is under the immediate control of the Medical Faculty offer unusual advantages to the students of this school.

**GARFIELD HOSPITAL.**—Clinical Lectures are given regularly during the session by Professors Thompson and Van Rensselaer on Surgery, and by Professors Cook and Claytor on Medicine, Carmichael on Dermatology, and Butler on Ophthalmology. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

**CHILDREN'S HOSPITAL.**—A weekly course of Medical and Surgical Clinics is given by Professors Thompson and Acker. An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.**—Dr. H. L. E. Johnson, in charge of the department of diseases of women; Dr. Shands, on general medicine; Dr. Tompkins, in charge of nervous diseases; Dr. Carmichael, in dermatology, and Dr. Stone, in genito-urinary diseases, conduct courses of instruction in their respective branches.

**PROVIDENCE HOSPITAL.**—Clinical Instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Dr. J. W. Bovée.

**LUTHERAN EYE AND EAR INFIRMARY.**—The diseases of the eye and ear in this hospital are demonstrated during the clinics of Professor Butler.

**EPISCOPAL HOSPITAL.**—Dr. Richardson shows cases of diseases of the nose, throat, and ear in the dispensary service of this hospital.

**COLUMBIA HOSPITAL.**—Clinics and gynecological operations by Dr. Bovée.

### CLINICS, 1899-1900.

#### *University Hospital.*

**Surgery.**—Dr. Thompson, Tuesdays; Drs. Van Rensselaer and Carr.

**Medicine.**—Dr. Johnston, Saturdays at 4.30; Drs. Acker and Cook.

#### *Dispensary Service.*

**Surgical Diseases.**—Dr. Wellington, Tuesdays, Thursdays, and Saturdays, 1 to 2 p. m.

**Medical Diseases.**—Dr. Hardin, Tuesdays, Thursdays, and Saturdays, 2 to 3 p. m.

**Gynecology.**—Dr. H. L. E. Johnson and Dr. Bovée, Wednesdays and Fridays, 1 to 2 p. m.

**Diseases of the Eye.**—Dr. Shute, Mondays and Thursdays, 2 to 3 p. m.

**Diseases of the Ear and Throat.**—Dr. Richardson, Mondays and Thursdays, 1 to 2 p. m.

Diseases of the Skin.—Drs. Yarrow and Carmichael, Mondays, 2 to 3 p. m.

Diseases of Children and Orthopedic Surgery.—Drs. McArdle and Shands, Wednesdays and Saturdays, 2 to 3 p. m.

Nervous Diseases.—Drs. Tompkins and Ruffin, Tuesdays and Fridays, 2 to 3 p. m.

Genito-urinary and Venereal Diseases.—Dr. Stone, Saturdays, 1 to 2 p. m.

*At the Garfield Hospital.*

Surgery.—Dr. Thompson, Sundays, at 10.30, November to April; Dr. Van Rensselaer, Sundays, at 10.30, October 1 to November 1.

Medicine.—Dr. Claytor, Tuesdays, at 4.15, October 1 to January 1; Dr. Cook, Tuesdays and Thursdays, at 4.15, January 1 to April 1.

Medical Dispensary Service.—Dr. Hardin, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service.—Dr. Wellington, Tuesdays, Thursdays, and Saturdays, at 2 p. m.

*At the Children's Hospital.*

Children's Diseases.—Dr. Acker, January 1 to April 1, Wednesdays, at 4.15 p. m.

Surgery.—Dr. Thompson, Tuesdays, at 2 p. m., October to April.

Medical Dispensary Service.—Dr. Leech, Tuesdays, Thursdays, and Saturdays, at 2 p. m.; Dr. Wellington, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service.—Dr. McArdle, Tuesdays, Thursdays, and Saturdays.

*At the Central Dispensary and Emergency Hospital.*

Gynecology.—Dr. H. L. E. Johnson, Sundays, at 1 p. m., October to April (fourth year).

Orthopedic Surgery.—Dr. Shands, Fridays, 1 p. m. (fourth year).

Nervous Diseases.—Dr. Tompkins, Mondays and Thursdays, at 12 noon (fourth year).

Surgery.—Dr. W. P. Carr, daily, at 2 p. m., and Thursdays, at 5.30 p. m., October to January 15.

Genito-urinary.—Dr. T. R. Stone, Tuesdays, at 1 to 2 p. m. (fourth year).

Dermatology.—Dr. Carmichael, Mondays and Thursdays, at 12 (third year).

*At the Lutheran Dispensary.*

Ophthalmology.—Dr. Butler, Tuesdays, at 1 p. m. (third year).

*At the Episcopal Eye, Ear, and Throat Hospital.*

Otology and Laryngology.—Dr. Richardson, Saturdays, at 1 p. m., November and December (fourth year).

*At Providence Hospital and at Columbia Hospital, by Special Invitation.*

Gynecology.—Dr. Bovée, Mondays and Thursdays (fourth year).

Obstetrical Demonstrations are given by Dr. E. E. Morse to fourth-year students. Cases are supplied.

All general Medical and Surgical Clinics are for students of the third and fourth years. . A strict record of the student's work in these clinics is kept, and attendance is required.

## SCHEDULE OF CLINICAL INSTRUCTION,

1900—1901.

Clinics at the UNIVERSITY HOSPITAL will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, clinics will be given at the other hospitals of the city in accordance with schedule just given.

*Cards giving exact days and hours of all clinical instruction are issued at the beginning of each term.*

When the student presents himself for graduation his record from Drs. Thompson, Van Rensselaer, and Carr must show that he has attended two full courses of instruction in clinical surgery, and must show from Drs. Johnston, Acker, Cook, and Claytor that he has attended two full courses of clinical medicine.

### UNIVERSITY LECTURES.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they may secure admission to other lectures, given in the Hall of the University, by applying to the Dean.

### PRIZES.

At the end of the term a General Examination Prize of fifty dollars is awarded. It is given to the candidate for graduation who shall pass the best general examination.

The Faculty awards two additional prizes—one for proficiency in Clinical Medicine and one for proficiency in Clinical Surgery.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology; Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology; Professor Sterling Ruffin gives one for the best examination in Medical Jurisprudence; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology; Professor E. L. Tompkins gives one for the best examination in Nervous Diseases; Professor Acker gives one for the best examination in Pædiatrics, and Professor Butler one for the best examination in Ophthalmology.

#### *Prize Awards, 1899.*

The General Examination Prize of Fifty Dollars, awarded to Luther Halsey Reichelderfer, of Ohio.

First honorable mention, awarded to Sothoron Key, of Maryland.

Second honorable mention, awarded to John Howard Allen, of Tennessee.

Third honorable mention, awarded to Orville J. Mason, of New York.

The Faculty Prize in Clinical Medicine, awarded to Robert B. Grubbs, of Virginia.

The H. L. E. Johnson Prize in Clinical Gynecology, awarded to Sothoron Key, of Maryland.

The Sterling Ruffin Prize in Medical Jurisprudence, awarded to L. H. Reichelderfer, of Ohio.

The C. W. Richardson Prize in Laryngology and Otology, awarded to William K. Ward, of the District of Columbia.

The E. L. Tompkins Prize in Nervous Diseases, awarded to Percy M. Cox, of the District of Columbia.

The G. N. Acker Prize in Pædiatrics, awarded to Henry A. May, of New York.

The H. C. Yarrow Prize in Dermatology, awarded to Randolph Kleiner, of Indiana.

The W. K. Butler Prize in Ophthalmology, awarded to D. W. Prentiss.

### TEXT-BOOKS AND WORKS OF REFERENCE.

**ANATOMY.**—*Gerrish's\* Text-Book of Anatomy by American Authors*; Quain's or Morris' Anatomy; Heisler's Text-book of Embryology; Holden's Manual of Dissection; Haynes' Manual of Anatomy; Wiedersheim's Structure of Man.

**PHYSIOLOGY.**—*Flint's*, Kirke's, Foster's or Yeo's Physiology.

**CHEMISTRY.**—*Richter's*, Remsen's, Simon's, or Fowne's Chemistry; Bowman's Medical Chemistry; Witthaus' Chemistry; Purdy's *Uranalysis*; Remsen's Organic Chemistry.

**MATERIA MEDICA.**—*H. C. Wood's Therapeutics*; National Dispensatory; Ede's Therapeutics.

**SURGERY.**—*Ashurst's*, Gross' System of Surgery; Erichsen's or Druitt's Surgery; Principles of Surgery, Senn.

**PRACTICE OF MEDICINE.**—Osler; Wood and Fitz; Tyson; Anders; American System of Practical Medicine (Loomis-Thompson); Da Costa's Diagnosis; Musser's Diagnosis; Clinical Diagnosis, Simon; Klemperer; Clinical Examination of the Blood, Cabot; Applied Therapeutics, Wilson.

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\* The works first named and in *italics* are preferred.

**OBSTETRICS.**—*Playfair*, Lusk, or Parvin's Obstetrics; American Text-book of Obstetrics (Saunders); Obstetric Surgery, by Grandin and Jarman; A. F. A. King's Manual of Obstetrics.

**GYNECOLOGY.**—*Garrigue on Diseases of Women*; Thomas and Mundé's Work; H. T. Byford's Manual of Gynecology.

**DISEASES OF CHILDREN.**—*Holt on Diseases of Infants and Children*; J. Lewis Smith; Meigs and Pepper; Rotch's Work.

**HISTOLOGY.**—Piersol's Normal Histology; Schäfer or Clarke's.

**PATHOLOGY AND BACTERIOLOGY.**—Abbott's Principles of Bacteriology; Ziegler's Pathological Anatomy.

**HYGIENE.**—Parks' Practical Hygiene; Stephenson and Murphy's Treatise on Hygiene and Public Health; Egbert's Hygiene.

**DERMATOLOGY.**—Hyde's Diseases of the Skin; Jackson's Diseases of the Skin; Duhring's Diseases of the Skin.

**OPHTHALMOLOGY.**—Nettleship, De Schweinitz, or Fick.

**MINOR SURGERY.**—Wharton.

**NERVOUS DISEASES.**—Gray, Mills, Dana, Hammond, Rounney.

**MENTAL DISEASES.**—Beaven Lewis.

**ORTHOPEDIC SURGERY.**—Bradford and Lovett's or Young's Orthopedic Surgery.

**LARYNGOLOGY AND OTIOLOGY.**—Bacon, Buck, Dench on the Ear; Seiler and F. S. Bishop on Throat Diseases.

**MEDICAL JURISPRUDENCE.**—*Reese*; Taylor's Manual; Witthaus and Becker.

**DICTIONARIES.**—Dunglison's, Duane's, Foster's, or Gould's.

## EXPENSES.

For the session of 1900-1901 and thereafter the fee for each year will be \$110. This covers all expenses, dissection and laboratories included, except breakage or loss of valuable apparatus in the laboratories. Of this amount at least \$25 must be paid upon entrance and before beginning dissection. Each graduate pays a \$10 fee for diploma.

A deposit is required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For special courses the following fees will be charged :

Matriculation fee, payable only once.....	\$5 00
Single tickets.....	25 00
Practical Anatomy, by the Demonstrator.....	10 00
Laboratory tickets, each, per year.....	10 00

Payment of the fees is required in all cases, and must be made at the commencement of the session, unless there are special arrangements with the Dean to suit the convenience of the student.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

## SCHOLARSHIPS.

By virtue of a liberal endowment from the late Mr. W. W. Corcoran, this School is enabled to offer six free Scholarships.

Two of these Scholarships are open for competitive examination to the graduates of the several High Schools of the District of Columbia. These two Scholarships are awarded to the two students whose averages are highest.

Two of the Scholarships are open for competitive examination to graduates of any reputable High School or College (preference being given to those in the District of Columbia) who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two graduates whose averages are highest.



The remaining two Scholarships are open for competitive examination to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two students whose averages are highest.

In addition to the above-mentioned six Corcoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which will be given to those who after one year's work are judged by the President of the University best qualified to enter the study of medicine for the purpose of becoming medical missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

The School Building is situated opposite a Government reservation, at No. 1325 H Street, N. W., THE UNIVERSITY HOSPITAL at 1335 H Street, N. W., within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

DR. E. A. DE SCHWEINITZ, *Dean*,  
1325 H Street, N. W.

## STUDENTS IN MEDICINE.

*First Year Students.*

Name.	State.	Address.
Bagby, B. B .....	Va. ....	631 8th Street, N. E.
Bechtold, George.....	N. Y....	1100 8th Street.
Bell, Chas. L.....	Mo. ....	1013 L Street.
Booth, G. W.....	Md. ....	334 12th Street, S. E.
Brandenburg, W. R....	D. C....	2335 18th Street.
Brenizer, Gilmer.....	N. C....	127 A Street, N. E.
Brian, E. G. ....	Md. ....	34 I Street.
Browning, A. J.....	Md. ....	313 4½ Street.
Butterfield, E. E .....	Mont...	1521 T Street.
Coburn, H. C., Jr....	D. C....	2111 G Street.
Cook, G. B.....	Va. ....	3 Thomas Circle.
Craig, A. E.....	D. C....	3125 O Street.
Cummings, O. G .....	Ala.....	.....
Donnally, H. H.....	Minn...	511 B Street, N. E.
Dorman, J. W.....	Ohio....	132 A Street, N. E.
Farrall, J. C.....	Md. ....	216 5th Street, S. E.
Fagin, E. A.....	Ohio....	Interior Department.
Franklin, E. T. M.....	Va.....	Alexandria, Va.
Garrett, John.....	Md. ....	3338 N Street.
Gale, J. C.....	Pa .....	Dist. Commrs' Office.
Goode, J. E.....	N. C....	922 N. Y. Avenue.
Galatzo, W. F.....	Md. ....	19 Grant Place.
Harley, R. Cooke.....	Md. ....	Forest Glen, Md.
Gunnell, J. H.....	D. C....	1765 Q Street.
Hart, F. M. ....	N. Y....	1522 Corcoran Street.
Harrington, F. E.....	Va.. ...	Marine Barracks.
Hastings, J. E.....	N. Y....	Patent Office.
Holloway, T. C.....	Ky.....	.....
Hospital, Dixon.....	Va.....	1135 9th Street.
Jones, S. A.....	Ohio....	Navy Department.
Lewis, H. L.....	Md. ....	Bethesda, Md.
Linville, Thos.....	N. C....	435 Mass. Avenue.
Mackall, Bruce.....	D. C....	1721 Riggs Place.
Mahling, E. H.....	Maine..	

Name.	State.	Address.
Mallory, W. J.....	Va. ....	109 5th Street, S. E.
May, C. H. ....	Va. ....	Alexandria, Va.
Minnegerode, G. C.....	D. C....	1330 30th Street.
Monroe, Madison.....	Va.....	620 Mass. Avenue.
McFarland, Eppa.....	Va.....	1135 9th Street.
McLain, E. B.....	Miss....	52 B Street, N. E.
McNeil, Irving .....	Tenn....	1719 G Street.
Oswell, C. A. ....	N. Y....	1106 L Street.
Phillips, J. F. ....	Va.....	422 3rd Street.
Pyle, D. T.....	Idaho ..	608 12th Street.
Pyles, J. C. ....	Md.....	Camp Springs.
Rhees, B. J.....	D. C....	1713 M Street.
Reed, E. Eder .....	Md.....	1206 T Street.
Rideout, M. B. ....	Iowa....	Y. M. C. A. Building.
Reynolds, McPherson.....	Ill.....	228 9th Street, N. E.
Searles, Stanley. ....	Ill.....	903 N. Y. Avenue.
Shreve, J. H., Jr.....	Md. . .	Chillum, Md.
Smith, E. B.....	Tenn....	20 3rd Street, N. E.
Smith, D. G. ....	D. C....	1335 22d Street.
Smith, L. C. ....	Va.....	Alexandria, Va.
Snowden, Edgar.....	Va.....	Alexandria, Va.
Spieden, Edgar, Jr.....	D. C....	639 Elliott St., N. E.
Stetson, Thos. ....	D. C....	2825 14th Street.
Taylor, L. H.....	Va.....	1644 R Street.
Towner, F. H. ....	D. C....	1105 O Street.
Thrift, H. A.....	Iowa....	702 19th Street.
Truelsen, T.....	Neb ....	505 4th Street.
Webb, P. L....	D. C....	1319 Emerson Street.
White, Dana, Jr. ....	Md.....	Riverdale, Md.
Willims, C. B.....	Pa. ....	822 7th Street, N. E.
Worley, D. A.....	Md.....	Riverdale, Md.
Winsor, R. F.....	Mass....	.....

*Second Year Students.*

Name.	State.	Address.
Adamson, J. H.....	Va.....	1112 13th Street.
Anderson, U. G.....	N. J. ...	935 Pa. Avenue.
Atkins, L. F.....	N. C....	1418 L Street.
Barnes, Geo. S.....	S. C....	1517 I Street.

Name.	State.	Address.
Boyer, G. M.....	Md. ....	1408 8th Street.
Boothby, W. C.....	N. H....	The Ingleside.
Brearden, R. ....	Wis.....	Weather Bureau.
Bridger, J. D.....	Miss....	The Fredonia.
Carswell, F. L. ....	Ga.....	1002 N Street.
Conyngton, Wm.....	Texas...	1409 Corcoran Street.
Emery, O. V.....	Pa.....	Treasury Dept.
Fitch, Arthur C.....	N. Y....	325 E. Capitol St.
Fitch, Frederick A.....	Ky. ....	2213 M Street.
Foust, Earl H.....	Mich....	810 9th Street, N. E.
Foster, C. L. ....	Miss....	1409 N. Capitol St.
Fry, Samuel.....	La.....	1311 H Street.
Green, R. J.....	D. C....	St. Elizabeth's Hosp.
Gilchrist, E. Y.....	Md. ....	652 Mass. Avenue.
Glascok, Alfred .....	Va.....	3040 P Street.
Hathaway, W. A.....	Pa.....	1112 13th Street.
Hudson, Edward C.....	Texas...	316 C Street.
Houghton, M. W.....	D. C....	1830 14th Street.
Jewett, Henry M.....	N. H....	509 1st Street, N. E.
Jones, E. B.....	Ind.....	1309 Roanoke Street.
Jones, E. E.....	D. C....	1940 9th Street.
Knowlton, J. W.....	Mass....	1335 N Street.
Laird, J. Packard. ....	Va.....	929 Farragut Square.
Lynch, J. Mortimer.....	Texas...	1017 K Street.
Lawton, E. M.....	D. C....	1143 24th Street.
Little, R. M.....	Ohio ...	519 E. Cap. Street.
Lyon, M. W., Jr.....	N. J.....	National Museum.
McClanahan, A. L.....	Va. ....	1205 M Street.
McDaniel, J. M.....	S. C....	1014 12th Street.
McGeary, T. J. ....	N. J....	712 11th Street.
Parsells, Chas. W.....	N. Y....	723 18th Street.
Price, M. H.....	Va.....	1255 H Street, N. E.
Pipes, H. F... ..	W. Va..	1542 7th Street.
Pollard, W. T.....	Va. ....	Alexandria, Va.
Poole, F. H.....	Texas...	1311 H Street.
Prevatt, J. T.....	Ga.....	1505 12th Street.
Quinn, W. A.....	D. C....	664 Mass. Ave., N. E.
Ransdell, R. C.....	Ind.....	Hamilton, Va.
Rogers, J. D... ..	Va.....	.....

Name.	State.	Address.
Robey, W. I. ....	Va. ....	University Hospital.
Slater, C. N. ....	D. C. ...	1735 S Street.
Smith, Jos. W. ....	Md. ....	1443 U Street.
Tinker, B. L. ....	Pa. ....	810 9th Street, N. E.
Williams, J. H. ....	Ga. ....	719 13th Street.
Williams, J. M. ....	W. Va. ..	1117 K Street.
West, R. T. ....	Md. ....	Kensington, Md.
Wimberly, G. W. ....	Ga. ....	1331 L Street.
Worthley, M. L. ....	Pa. ....	469 Penna. Avenue.

*Third Year Students.*

Name.	State.	Address.
Bennett, A. B., Jr. ....	D. C. ....	3038 P Street.
Brown, T. J. W. ....	Tenn. ...	1112 13th St.
Collins, H. F. ....	D. C. ....	125 10th Street, N. E.
Costello, M. E. ....	Md. ....	Hyattsville, Md.
Dailey, W. F. ....	Miss. ....	1312 Q Street.
Davis, W. T. ....	Ky. ....	1013 L Street.
Eastman, W. R. ....	Va. ....	Falls Church.
Freeman, P. L. ....	Md. ....	422 8th Street, S. E.
Grasty, T. S. D. ....	Va. ....	625 Q Street.
Hoadley, A. M. ....	N. Y. ....	241 Pa. Avenue.
Kittredge, H. E. ....	Vt. ....	1027 8th Street.
Mason, E. L. ....	Va. ....	Children's Hospital.
March, Harry A. ....	Ohio. ....	906 I Street.
Marshall, J. W. ....	Idaho ..	Treasury Dept.
Magruder, E. P. ....	Md. ....	1220 H Street.
Merrill, W. H. ....	Vt. ....	Emergency Hospital.
Morris, S. J. ....	Ohio. ....	1615 1st Street, N. E.
Morten, Baxter. ....	La. ....	Patent Office.
Murray, A. ....	Va. ....	Alexandria, Va.
Mitchell, J. E. ....	Md. ....	497 Pa. Avenue.
Nelson, A. T. ....	Va. ....	La Normandie.
Pyles, W. L. ....	D. C. ....	224 11th St., S. E.
Perkins, W. R. ....	Md. ....	627 Pa. Avenue.
Pulliam, J. M. ....	Va. ....	St. Elizabeth's Hosp.
Reed, D. H. ....	N. C. ....	1712 15th Street.
Ruffin, G. M. ....	N. C. ....	1023 Vt. Avenue.
Russell, R. L. ....	D. C. ....	10 7th Street, N. E.

Name.	State.	Address.
Rucker, H. C.....	Va.....	St. Elizabeth's Hosp.
Ryder, L. W.....	Conn...	Marine Hospital.
Simmons, M. J.....	Md.....	1411 Corcoran Street.
Tobias, H. W.....	Pa.....	Treasury Dept.
Turner, K. B.....	Kans....	Pacific Building.

*Fourth Year Students.*

Name.	State.	Address.
Andrews, W. F.....	Mich....	1315 Columbia Road.
Atkinson, J. F.....	Ind ....	Gov't Printing Office.
Barron, N. I.....	Ala.....	902 G Street.
Beale, R. S.....	D. C....	3062 Q Street.
Beall, C. M.....	D. C....	1469 Kenesaw Ave.
Blye, B. F., Jr.....	N. Y....	Treasury Dep't.
Birtwell, D. T.....	Pa.....	725 12th Street.
Brown, O. G.....	D. C....	1357 Roanoke Street.
Brown, H. L.....	D. C....	230 N. Capitol Street.
Bradshaw, G. M. B.....	Pa. ....	War Department.
Butz, A. D.....	Pa.....	Eastern Dispensary.
Cannon, J. S.....	England.	1829 K Street.
Clark, C. P.....	Miss....	620 I Street.
Clark, W. S.....	N. Y....	819 13th Street. .
Copeland, E. P.....	D. C....	Children's Hospital.
Cuthbertson, C. W.....	N. C....	622 E Street.
Dixon, T. B.....	D. C....	1336 19th Street.
Fadeley, F. F.....	Va.....	2023 N Street.
Ford, R. H.....	D. C....	U. S. Coast Survey.
Gotta, R. C.....	Pa.....	818 New Jersey Ave.
Graham, H. H.....	Ohio....	305 H Street.
Greene, H. S.....	Vt.....	1320 Q Street.
Greenstreet, A. G.....	Mo.....	1343 L Street.
Griffith, W. E.....	Pa.....	420 11th Street, N. E.
Hales, R. A.....	N. C....	1325 12th St., N. E.
Hester, F. D.....	Va.....	The Portner.
Johnson, F. T.....	Mich....	1442 Florida Avenue.
* Kleiner, Randolph.....	Md.....	725 12th Street.
Kemp, T. J.....	Neb....	Treasury Dep't.

\* Deceased.

Name.	State.	Address.
Larrick, B. F., M. D.....	Ill.....	824 12th Street.
Leith, A. T.....	Wis.....	1461 Florida Avenue.
Macatee, H. C.....	Va.....	Garfield Hospital.
Main, R. B.....	D. C....	2009 Mass. Avenue.
Manning, H. M.....	Pa.....	637 Md. Ave., N. E.
Mason, S. M.....	Va.....	Columbia Hospital.
Medley, W. W.....	Va.....	1313 Corcoran Street.
McKee, W. P.....	D. C....	809 22d Street.
McKeldin, R. A. W.....	Md.....	333 N. C. Ave., S. E.
Moulden, W. R.....	D. C....	1305 R. I. Avenue.
Perry, C. R.....	Va.....	610 21st Street.
Price, H. M.....	D. C....	426 7th Street, S.W.
Prentiss, E. C. ....	D. C....	1218 9th Street.
Ragan, C. A.....	Tenn...	Garfield Hospital.
Reis, Henry, Jr. ....	Ill.....	Garfield Hospital.
Riggles, J. L.....	D. C....	445 O Street.
Rittenour, A. A.....	D. C....	.....
Robinson, G. M.....	Pa.....	1011 M Street.
Rowdybush, R. F., M. D.....	Ill.....	211 4½ Street.
Schlaar, W. F....	N. Y....	800 O Street.
Smith, C. T.....	Va.....	30 Grant Place.
Smith, H. W. ....	Pa ....	Navy Department.
Snoddy, T. B.....	D. C....	1217 K Street.
Stearns, J. W.....	D. C....	1756 Madison Street.
Stewart, J. W.....	N. C....	Bethesda, Md.
Taylor, A. A. ....	Ohio ...	1002 K Street.
Thomas, H. B.....	N. C....	1021 Vermont Ave.
Westlake, A. J.....	N. Y....	Geological Survey.
Webb, U. R.....	Tenn...	1718 N Street.
Wyeth, L. J.....	Ill.....	2022 R Street.

*Special Students.*

Name.	State.	Address.
H. W. Lawson, B. S.....	Mich....	105 A Street, S. E.
M. C. Marsh, B. S.....	N. Y....	1000 8th Street.
W. A. Karns.....	Ga.....	11½ Grant Place.
F. W. P. Butler, M. D.....	S. C....	.....

Total..... 213

# THE DENTAL SCHOOL.

## THE FACULTY.

\* REV. BENAIHAH L. WHITMAN, D. D., LL. D.,  
*President.*

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

J. HALL LEWIS, D. D. S.,  
*Dean,*  
Professor of Dental Prosthetics.

HENRY C. THOMPSON, D. D. S.,  
Professor of Operative Dentistry.

STERLING RUFFIN, M. D.,  
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, M. D.,  
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,  
Professor of Chemistry.

WILLIAM P. CARR, M. D.,  
Professor of Physiology.

JONATHAN R. HAGAN, D. D. S.,  
Professor of Oral Surgery.

W. F. R. PHILLIPS, M. D.,  
Demonstrator of Anatomy.

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\* Resigned March 31, 1900.



WILLIAM S. WASHBURN, M. D.,  
Professor of Normal Histology.

WALTER REED, M. D.,  
Professor of Pathology and Bacteriology.

WILLIAM H. TRAIL, D. D. S.,  
R. E. L. HACKNEY, D. D. S.,  
CHARLES R. RICE, D. D. S.,  
H. W. JOHNSON, D. D. S.,  
WILLIAM C. FISHER, D. D. S.,  
Demonstrators, in Charge of Infirmary.

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## COURSES OF INSTRUCTION.

The Regular Course of Lectures begins on October 1, 1900, and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. R. Hagan, on the above date, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The courses of instruction extend through three years, and are arranged as follows :

First Year.—Anatomy, Physiology, Chemistry, and Materia Medica, together with Practical Anatomy, Operative and Prosthetic Technics, and such Infirmary work as is suitable for first-year students.

Second Year.—The subjects of the first year are continued, and to these are added Operative Dentistry, Prosthetic Dentistry, and Histology, with more advanced Infirmary work.

Third Year.—This year is devoted to Operative and Prosthetic Dentistry, Oral Surgery, and Bacteriology. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located Dental School building gives ample opportunities.

The operating-room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the Infirmary, which is under the immediate supervision of Professor Lewis and Drs. Trail and Hackney, the Demonstrators in charge. They are in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of their many years of experience in Dental Practice.

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of twenty-seven months' actual practice in the Infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

This School complies with all the requirements of the National Association of Dental Faculties, and also with those of the National Association of Dental Examiners, provided the requirements of the latter do not conflict with those of the former.

## PROSTHETIC DENTISTRY AND METALLURGY.

PROFESSOR LEWIS.

In this department the principles involved in the construction of artificial substitutes are exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum is thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., are carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist receive special attention.

The Professor endeavors to make his instruction thoroughly practical, and to prepare the student for the actual every-day practice of Prosthetic Dentistry.

OPERATIVE DENTISTRY, DENTAL ANATOMY,  
AND PATHOLOGY.

PROFESSOR THOMPSON.

This course embraces lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture room, and are demonstrated clinically by gentlemen whose reputations are fully established as proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

## CHEMISTRY.

PROFESSOR DE SCHWEINITZ.

The instruction in this department embraces—

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry is studied with special attention to those organic compounds that are of practical use.

Laboratory instruction is given in the determination of acids and bases, analyses of alloys, etc.

## PHYSIOLOGY.

PROFESSOR CARR.

The subject is fully covered by a two years' course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Emphasis is given to those truths that have a known practical value.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RUFFIN.

In this course of instruction especial prominence is given to the physiological action of medicines and their therapeutic uses.

The Professor endeavors to make his instruction as practical as possible. The lectures are supplemented by working prescriptions and blackboard illustrations, as occasion will admit. The student is taught also the use of the Metric System in Medicine.

In the Pharmaceutical Laboratory the students are taught the methods of making different preparations, such as infusions, decoctions, tinctures, syrups, and the like. They are also taught the compounding of prescriptions, the proper excipients for pills, incompatibles (especially such as produce dangerous compounds), and are expected actually to compound working formulæ.

## ANATOMY.

PROFESSOR SHUTE.

This course of lectures is arranged with the view to render the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon also is constantly employed to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

#### *Practical Anatomy.*

The dissecting-room is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge. The room is open during the day and at night until 11 P. M., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

### ORAL SURGERY.

#### PROFESSOR HAGAN.

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

### HISTOLOGY.

#### PROFESSOR WASHBURNE.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

## BACTERIOLOGY.

PROFESSOR REED.

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practised by the students, after which the most important pyogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

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ADMISSION.

Candidates for admission must show, either by examination or by the exhibit of a diploma or a certificate from some reputable institution of learning, that they have received a good English education, according to the requirements of the National Association of Dental Faculties.

## ADVANCED STANDING.

The following is considered as equivalent to one course in this School:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Graduates from schools of pharmacy and veterinary medicine may enter the Junior Class after passing a satisfactory examination in the first-year studies.

## GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of seven months' duration, and three courses of Clinical Instruction in this Institution, during the regular winter term and in separate years, with the exceptions noted below.

Before becoming eligible for graduation, all medical graduates and students must take two full courses upon Operative and Prosthetic Dentistry, and conform to the usual Infirmary requirements.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be reexamined in the fall.

Students may go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of

twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the School Museum a well-constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the School sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second dental course, provided that, one month before the spring examinations, they give to the Dean written notice of their intention, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States.

### FACULTY PRIZE.

A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record. At the last commencement the prize was awarded to Thomas M. Rice, of Pennsylvania.



## UNIVERSITY LECTURES.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to other lectures given in the Hall of the University by applying to the Dean.

## EXPENSES.

First Year.....	\$100 00
Second Year.....	100 00
Third Year.....	110 00

The above includes all the tuition expenses. There are no extras whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutic, and Chemical Laboratories and Dental Infirmary are all furnished to the students free of charge.

Each student must furnish his own books and dental instruments.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he may avail himself of Laboratory and Infirmary instruction.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities.

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The Dean may be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 p. m., and also at the Dental School Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week, from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

For further information regarding the Dental School, application may be made to

J. HALL LEWIS, *Dean,*  
1023 Vermont Avenue, Washington, D. C.

## STUDENTS OF DENTISTRY.

*Freshmen.*

Name.	State.	Address.
Bartlett, F. I.....	D. C....	818 F Street.
Beckner, U. A.....	W. Va..	.....
Chatterton, E. U.....	D. C....	.....
Cooksey, C. B.....	Miss....	225 12th Street, S. W.
Cooper, A. B.....	D. C....	2416 14th Street.
Delamater, H. B. *.....	Pa.....	722 13th Street.
Findley, F. A.....	Pa.....	423 I Street.
Gompertz, J. M.....	Conn...	1004 M Street.
Gunnell, J. H.....	D. C....	1765 Q Street.
Hagan, E. R.....	Va.....	1225 I Street, N. E.
Harris, C. H.....	Md.....	Rockville, Md.
Hutchinson, W. F.....	Va.....	.....
Johnson, A. T.....	Md.....	146 C Street, N. E.
Jones, B. C.....	Va.....	821 C Street.
Lamkin, L. G.....	Ind.....	1104 12th Street.
Layton, R. E.....	Eng....	3122 Q Street.
Morgan, R. W.....	Va.....	307 East Capitol St.
Ness, C. J.....	D. C....	.....
Pyle, D. F.....	Idaho...	608 12th Street.
Riggles, H. T*.....	D. C....	1322 Vermont Ave.
Rust, T. L.....	Va.....	Alexandria, Va.
Schwab, T. W.....	N. J....	123 7th Street, N. E.
Shaw, H. B.....	D. C....	464 Pa. Avenue.
Smith, J. E.....	D. C....	.....
Stevens, H. P.....	D. C....	909 E Street.
Willson, B. P.....	Md.....	Rockville, Md.

*Juniors.*

Name.	State.	Address.
Birch, J. V... ..	D. C ...	1911 F Street.
Brown, S. T.....	Ill.....	1405 R. I. Avenue.
Butz, E. M....	D. C....	1014 12th Street.

\* Not in constant attendance.

Name.	State.	Address.
Cox, G. W., Jr.....	D. C....	1316 W Street.
Crabbe, W. G *.....	Utah....	9 4th Street, N. E.
De Farges, J. R.....	Va. ....	1731 13th Street.
Gardner, B. A.....	N. Y....	7 4th Street.
Graser, S. O *.....	Mich...	1418 L Street.
Haselbarth, A. L.....	Pa.....	439 Warner Street.
Hasselbach, C. M.....	N. J....	813 G Street, N. E.
Humeston, C. A.....	Conn...	620 I Street.
Lane, T. T.....	D. C....	326 3d Street.
McIntee, A. J.....	Mass....	1014 I Street.
Miller, P. H.....	Va.....	905 C Street, N. E.
Putnam, C. A.....	Mass....	3608 13th Street.
Reiss, W. A.....	D. C....	703 A Street, N. E.
Richardson, R. G.....	Md.....	Hyattsville, Md.
Rule, R. W.....	Iowa....	132 Md. Ave., S. W.
Smith, H. F.....	Mass....	921 11th Street.
Van Zandt, C. A.....	Ohio ...	1300 Penna. Avenue.
Wesler, J. H.....	Conn...	323 1st Street, N. E.
White, G. H.....	D. C....	1105 E Street, S. W.
Yount, M.....	D. C....	1016 Mass. Avenue.

*Seniors.*

Name.	State.	Address.
Bacon, A. P.....	Iowa...	1506 6th Street.
Barr, W. C.....	Ill.....	Library of Congress.
Brengle, P. E.....	Tenn. ...	450 P Street.
Calvin, E. M.....	Va.....	2530 I Street.
Creamer, Wm.....	Md.....	151 Carroll St., S. E.
Cuthbertson, C. W.....	D. C....	622 E Street.
Fred, T. N.*.....	Va. ....	405 M Street.
Green, E. G.....	Mass....	.....
Grubbs, R. G.*.....	Va. ....	1460 Corcoran Street.
Hughes, C. A.....	Tenn. ...	403 M Street.
King, E. M.....	W. Va..	215 12th Street, S. E.
McClanahan, J. T.....	N. C....	.....
Perlie, H. E.....	Mass....	924 14th Street.

\* Not in constant attendance.

Name.	State.	Address.
Smith, E. E.....	D. C....	331 F Street, N. E.
Van Voorhis, H. M.....	Pa.....	.....
Wallace, J. R.....	Ohio ...	455 G Street.
Watts, W.....	Md.....	301 M Street.
Welch, F.....	Del.....	721 18th Street.
Whittaker, H. W. ....	Ohio ...	455 G Street.
Wolven, F. H.....	N. J....	907 13th Street.
Yates, J. R. ....	D. C....	1300 Pa. Avenue.
Young, H.....	N. S....	924 14th Street.
Total.....		71

## THE SUMMER SCHOOL.

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NOTE.—*The Summer School has been discontinued.*

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### STUDENTS IN THE SUMMER SCHOOL, 1899.

Name.	State.	Address.
Adams, Arthur B.....	Md.....	Treasury Dept.
Alexander, J. P.....	Tenn....	Treasury Dept.
Ancona, John F.....	D. C....	1742 F Street.
Ashford, Horace F.....	D. C....	1763 P Street.
Ballinger, Phil. T.....	Iowa....	Colonial Hotel.
Bayly, Margaret .....	D. C....	1333 11th Street.
Behrend, Rudolph B.....	D. C....	412 5th Street.
Berry, George M.....	Md.....	2017 H Street.
Boylor, Rudolph H.....	D. C....	2016 13th Street.
Buckler, George.....	Md.....	1832 9th Street.
Bulifant, Blanche.....	Va.....	241 North Capitol St.
Clapton, Belle C .....	Va.....	Hampton, Va.
Cross, Elizabeth W....	D. C....	1908 F Street.
Donally, Harry Hampton.....	Minn...	511 B Street, N. E.
Drain, John F. L.....	Md.....	2036 O Street.
Ewing, Ivy H.....	Ind.....	158 F Street, S. E.
Faulkner, Wm. Thomas. ....	Miss....	Treasury Dept.
Fenning, Karl H.. .....	D. C....	513 4th Street.
Fields, S. Helen.....	Pa.....	129 6th Street, S. E.
Fletcher, Frank Dexter.....	N. Y....	1324 Q Street.
Ford, Ella M.....	Va.....	47 R Street.
Ford, Samuel Carroll.....	D. C....	314 2d Street, S. E.
Fuller, Hubert Bruce.....	Conn...	1615 Florida Avenue.
Galliher, Charles H.....	D. C....	107 5th Street, S. E.
Gates, Otis H.....	Fla....	123 4th Street, S. E.
Goshert, Christie S.....	Mo.....	Fish Commission.
Hamilton, James R.....	Texas ..	1327 Q Street.

Name.	State.	Address.
Holt, Lester M.....	Wis.....	1017 Twelfth Street.
Hume, R. S.....	Va.....	St. Elmo, Va.
Jacobs, Emma Suter.....	D. C....	1543 9th Street.
Jerdone, Walter P.....	D. C....	922 I Street.
Knight, Evelyn....	D. C....	1106 Md. Ave., S. W.
Lillie, Ray D.....	Mich....	Indian Office.
Matson, J. W.....	Md.....	Hotel Vendome.
Morgan, John D.....	Ohio....	1338 Yale Street.
Olberg, Chas. R.....	Minn...	322 Spruce Street.
Pack, Samuel Bernard.....	Pa.....	Treasury Dep't.
Phifer, Mary A.....	Ind.....	158 F Street, S. E.
Raber, Katherine May.....	Ohio ...	1300 Lydecker Ave.
Rucker, N. Parks.....	Va.....	214 E Street.
Sanders, Frances.....	D. C....	629 S Street.
Scott, Walter A.....	Ill.....	War Department.
Shea, James William.....	D. C....	The Bancroft.
Smith, Roger Green Gale.....	D. C....	314 A Street, N. E.
Stabler, Harold B.....	Md.....	1321 G Street.
Stetson, Frank O.....	Mass ...	Weather Bureau.
Taggart, G Russell .....	N. J....	58½ Bates Street.
Thönssen, Pearl Edna.....	Texas ..	1523 Fifth Street.
Turner, A. Campbell.....	Mo.....	2158 Florida Avenue.
Tyler, George T., Jr.....	Va.....	Falls Church, Va.
White, Marian.....	Iowa ...	330 T Street.
Williams, Hugh.....	Ohio ...	154 A Street, N. E.
Wooster, Walter M.....	D. C....	1443 Q Street.
Yancey, Katherine Lulalia....	Va.....	1309 17th Street.

Total..... 54

# DEGREES CONFERRED IN 1899.

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## HONORARY.

---

### *Doctor of Laws.*

Name.	Residence.
Moore, John Bassett.....	New York
A. B., Columbia University.	

### *Doctor of Science.*

Clarke, Frank Wigglesworth .....	Massachusetts
B. S., 1867, Harvard University.	

### *Doctor of Humane Letters.*

Bigelow, Frank Hagar.....	Massachusetts
A. B., 1873 ; A. M., 1880, Harvard University.	
S. T. B., 1880, Episcopal Theological School, Cambridge.	

## UPON EXAMINATION.

---

### *Master of Arts.*

Name.	Residence.
Ancell, Benjamin Lucius .....	Virginia
Washington and Lee University.	
Fiske, Christabel Forsythe .....	District of Columbia
Ph. B., Cornell University.	
Jacobs, Frances Mabel.....	District of Columbia
B. A., Columbian University.	
Hilliker, Albert Mayell.....	Minnesota
B. D., Seabury Divinity School.	
Magruder, Caleb Clark, Jr.....	Maryland
B. A., M. A., Loyola College.	
LL. B., Georgetown University.	

Name.	Residence.
McRae, Cameron Farquhar.....	Virginia
Graduate Virginia Military Institute.	
Minnick, John Dufton.....	Indiana
B. A., University of Indianapolis.	
Tayler, Lila .....	District of Columbia
B. S., Wellesley College.	
Wallis, William James.....	District of Columbia
B. A., Dartmouth College.	
White, Jacob Morton.....	Virginia
B. A., William and Mary College.	

*Master of Science.*

Doyle, Aida Mary.....	Pennsylvania
B. S., Columbian University.	
Esterly, Burton Haines.....	Wisconsin
B. S., University of Wisconsin.	
Jones, Fred Cragin.....	District of Columbia
B. S., Columbian University.	
Lamson, Eleanor Annie.....	District of Columbia
B. S., Columbian University.	
Orth, Henry, Jr.....	District of Columbia
M. E., Lehigh University.	
Skinner, William.....	Maryland
B. S., Maryland Agricultural College.	
Storm, Christian George .....	Wisconsin
B. S., Columbian University.	
Upton, Clara Mary. ....	District of Columbia
B. A., Columbian University.	
Vaill, Edward Warren, Jr.....	Massachusetts
B. S., Worcester Polytechnic Institute.	
Woodworth, George Keen.....	District of Columbia
M. E., Cornell University.	

*Civil Engineer.*

Fendall, Thomas Miller.....	Virginia
B. S., Virginia Military Institute.	
Lamson, William Mather .....	District of Columbia
B. S., Columbian University.	



*Doctor of Medicine.*

Name.	Residence.
Allen, John Howard.....	Tennessee
Baker, Osmyn .....	New Jersey
Blackburn, S. Alford.....	Kentucky
Butler, Arthur Reginald.....	Oregon
Cox, Percy Murtaugh.....	Maryland
Gibson, Frank Eugene.....	District of Columbia
Grubbs, Robert Bland.....	Virginia
Gunion, John Paul....	District of Columbia
Hodes, Harry Ketcham.....	New York
Key, Sothoron....	Maryland
Mason, Orville Johnson .....	New York
May, Henry Agett.....	New York
McIntee, Michael Joseph.....	Massachusetts
Perkins, Joseph.....	Illinois
Prentiss, D. Webster, Jr.....	District of Columbia
Reichelderfer, Luther Halsey .....	Ohio
Riley, Philander Chase .....	Maryland
Sellhausen, Harry A.....	District of Columbia
Sheridan, Charles J.....	New York
Sims, William Eaton....	South Carolina
Smith, William Thomas.....	Georgia
Stromberger, Henry H.....	District of Columbia
Tappan, J. Clarence .....	District of Columbia
Tiefenthaler, Benjamin F.....	Ohio
Ward, William Kraft.....	District of Columbia
Williams, Wellon Chapman .....	District of Columbia
Worstell, Gaylord.....	Texas

*Doctor of Dental Surgery.*

Bennett, Arthur Reginald.....	Georgia
Cuevas, Enrique ...	Chile
Fisher, Williams Cummings.....	District of Columbia
Gates, Thomas J.....	Maryland
Hoofnagle, Walter Brice .....	Maryland
Kemball, William Marshall.....	Wisconsin
McChesney, John R.....	Maryland
Pool, Stephen D.....	Louisiana

Name.	Residence.
Pairo, William Edwin.....	Virginia
Rice, Thomas M.....	Pennsylvania
Rawson, William A.....	Michigan
Terry, Harry Summers.....	Michigan
Woodford, William G.....	District of Columbia

*Master of Laws.*

Allen, Charles Kissam.....	North Dakota
LL. B., National University.	
LL. M., National University.	
Alward, I. Q. H.....	New Jersey
Auer, Harry Anton.....	District of Columbia
LL. B., Columbian University, 1898.	
Bingham, Goundry W.....	Alabama
LL. B., Georgetown University, 1898.	
Brown, Harry J.....	New Hampshire
B. S., Dartmouth College, 1895.	
LL. B., Columbian University, 1897.	
Burnham, Royal E.....	District of Columbia
LL. B., Columbian University, 1898.	
Bynum, Dixon H.....	Indiana
LL. B., Columbian University, 1898.	
Carr, Wilbur J.....	New York
LL. B., Georgetown University, 1894.	
Chase, George Phillips.....	District of Columbia
B. S., University of Pennsylvania, 1895.	
LL. B., Columbian University, 1898.	
Chesley, Willoughby S.....	Maryland
LL. B., Columbian University, 1898.	
Clark, Charlton M.....	Mississippi
LL. B., National University.	
Colladay, Edward Francis.....	Kansas
LL. B., Columbian University, 1898.	
Crist, Wiley.....	Illinois
LL. B., Columbian University, 1898.	
Dean, Charles Ray.....	District of Columbia
Ph. B., Chicago University, 1877.	
LL. B., Columbian University, 1882.	
Denison, Edward Everett.....	Illinois
A. B., Yale University, 1896.	

Name.	Residence.
Disch, H. G.....	Wisconsin
LL. B., Columbian University, 1898.	
Doyle, John Thomas.....	New York
LL. B., Columbian University, 1886.	
Du Mars, John E.....	Illinois
Edwards, O. Ellery, Jr.....	New York
B. S., Alabama Polytechnic Institute.	
LL. B., Columbian University.	
Evans, Samuel H.....	Virginia
LL. B., Columbian University, 1898.	
Gray, John P.....	Idaho
LL. B., Columbian University, 1898.	
Guynes, Charles Oscar.....	Mississippi
B. L., Mississippi College, 1895.	
LL. B., Columbian University, 1898.	
Haddock, W. Rush.....	Iowa
LL. B., State University of Iowa.	
Handy, Fred C.....	Virginia
LL. B., Columbian University, 1898.	
Hardy, Robert S.....	Mississippi
Harris, John T.....	Missouri
LL. B., Columbian University, 1898.	
Hemmings, Frederick Leith.....	Illinois
LL. B., Columbian University, 1898.	
Holden, Walter A.....	Connecticut
LL. B., Columbian University, 1898.	
Johannes, George.....	District of Columbia
LL. B., Columbian University, 1898.	
Johnson, Livingston S.. ..	Virginia
LL. B., Columbian University, 1898.	
Jones, Richard Henry.....	Alabama
LL. B., Georgetown University, 1898.	
Kiggins, Frank M.....	District of Columbia
A. B., Vanderbilt University.	
LL. B., Georgetown University.	
LL. M., Georgetown University.	
Lee, Harry Holbrook.....	Ohio
LL. B., Columbian University, 1898.	
Linkins, Charles.....	District of Columbia
LL. B., Columbian University, 1898.	

Name.	Residence.
<b>Matthews, Charles Eugene</b> .....	Oklahoma Territory
LL. B., Columbian University, 1898.	
<b>Meritt, Edgar B.</b> .....	Arkansas
LL. B., Georgetown University, 1898.	
<b>Miller, Claude E.</b> .....	Pennsylvania
LL. B., Columbian University.	
<b>Moulton, Alston B.</b> .....	Massachusetts
B. S. Worcester Polytechnic Institute.	
LL. B., Columbian University, 1898.	
<b>Nelms, William H.</b> .....	Illinois
LL. M., Georgetown University, 1898.	
<b>Oliver, Robert Taylor</b> .....	District of Columbia
LL. B., Columbian University, 1898.	
<b>Sellhausen, Armin A.</b> .....	District of Columbia
LL. B., Columbian University, 1898.	
<b>Semmes, Alexander H.</b> .....	District of Columbia
LL. B., National University.	
<b>Shreve, Charles S., Jr.</b> .....	District of Columbia
LL. B., Columbian University, 1897.	
<b>Smith, Charles Magill</b> .....	Virginia
LL. B., National University, 1896.	
LL. M., National University, 1897.	
<b>Smith, Walter Scott.</b> .....	Alabama
A. B., Lineville College, 1896.	
LL. B., Columbian University, 1898.	
<b>Stamper, William Stephen</b> .....	Virginia
LL. B., Columbian University, 1898.	
<b>Tait, Galen L.</b> .....	Nebraska
LL. B., Columbian University, 1898.	
<b>Tindall, Philip.</b> .....	District of Columbia
LL. B., Columbian University, 1898.	
<b>Tralles, Forest P.</b> .....	District of Columbia
LL. B., Columbian University, 1898.	
<b>Varney, Walter U.</b> .....	Virginia
LL. B., Columbian University, 1898.	
<b>Via, Lemuel R.</b> .....	Virginia
LL. B., Georgetown University.	
<b>Watts, Reuben B.</b> .....	Alabama
LL. B., Georgetown University.	
<b>Weaver, Harry O.</b> .....	Ohio
LL. B., Columbian University, 1896.	

*Master of Patent Law.* •

Name.	Residence.
<b>Bartlett, John F.</b> .....	<b>Massachusetts</b>
LL. M., National University, 1897.	
<b>Becker, William J.</b> .....	<b>Wisconsin</b>
M. E., Royal Polytechnic, Munich, 1891.	
B. L., Columbian University, 1898.	
<b>Billman, Obed Calvin.</b> .....	<b>Ohio</b>
LL. B., Chicago Correspondence Law School, 1897.	
<b>Buck, Arthur A.</b> .....	<b>Massachusetts</b>
S. B., Massachusetts Institute of Technology, 1893.	
B. L., Columbian University, 1897.	
<b>Doyle, Bertram Martin.</b> .....	<b>Kentucky</b>
Ph. B., Riverside Seminary, 1892.	
LL. B., Columbian University, 1896.	
LL. M., Columbian University, 1897.	
C. E., Cornell University.	
<b>Duncan, Harry Lee.</b> .....	<b>New York</b>
LL. B., New York Law School.	
M. E., Columbian University.	
<b>Eakle, Edward H.</b> .....	<b>District of Columbia</b>
LL. B., Columbian University.	
LL. M., Columbian University.	
<b>Ferguson, Thomas H.</b> .....	<b>Michigan</b>
Ph. B., University of Michigan, 1895.	
B. S., University of Michigan, 1896.	
LL. B., Detroit College of Law, 1897.	
<b>Greist, Lewis T.</b> .....	<b>Indiana</b>
B. L., Columbian University, 1898.	
<b>Harris, Charles Gantt.</b> .....	<b>District of Columbia</b>
B. S., Worcester Polytechnic Institute.	
B. L., Columbian University, 1898.	
<b>Hatch, William M.</b> .....	<b>Vermont</b>
A. B., Dartmouth College.	
B. L., Columbian University.	
M. L., Columbian University.	
<b>Johnson, A. Roland</b> .....	<b>District of Columbia</b>
LL. B., Columbian University, 1895.	
LL. M., Columbian University, 1896.	
LL. M., National University, 1897.	
<b>Kinnan, Arthur F.</b> .....	<b>Michigan</b>
B. S., Michigan State College.	
LL. B., Columbian University, 1895.	

Name.	Residence.
Lawson, William C. ....	District of Columbia
Moore, David Pelton. ....	District of Columbia
B. L., Columbian University, 1897.	
M. L., Columbian University, 1898.	
Parker, Charles W. ....	Virginia
LL. B., Columbian University, 1896.	
M. L., Columbian University, 1897.	
Powell, Ralph C. ....	Ohio
A. B., Yale University, 1892.	
LL. B., National University, 1896.	
LL. M., National University, 1898.	
Prentiss, Spencer B. ....	District of Columbia
B. S., Columbian University, 1895.	
B. L., Columbian University, 1897.	
M. L., Columbian University, 1898.	
Ruckman, Webster S. ....	Michigan
B. S., University of Michigan, 1887.	
B. L., Columbian University, 1897.	
LL. M., National University, 1898.	
Saul, John A. ....	District of Columbia
LL. M., Georgetown University.	
Seibold, Arthur Bingham. ....	District of Columbia
LL. B., Columbian University, 1896.	
M. L., Columbian University, 1897.	
Smith, Louis C. ....	Massachusetts
B. S., Worcester Polytechnic Institute.	
LL. B., National University.	
LL. M., National University.	

*Bachelor of Laws.*

Alward, I. Q. H. ....	New Jersey
Barrus, George W. ....	New Hampshire
Brewer, A. Farley. ....	Massachusetts
A. B., Williams College, 1897.	
Brockett, Bluford Wilson. ....	Maryland
Butts, Joseph Waddell. ....	New York
Chapman, Charles McC. ....	New York
Chick, John Merle. ....	Pennsylvania
Clark, Ralph A. ....	Iowa
Cooke, Harry Lee ....	Tennessee
Cooksey, Paul. ....	Kentucky

Name.	Residence.
Coombs, Howard Addison.....	Illinois
S. B., Worcester Polytechnic Institute.	
Cromwell, William Nevarre.....	District of Columbia
Crooks, James W.....	Illinois
Davis, Ewin Lamar.....	Tennessee
Denison, Edward Everett.....	Illinois
A. B., Yale University.	
Du Mars, John E.....	Illinois
Esterly, Frank C.....	Minnesota
Everts, Frank A.....	Indiana
Flint, Ralph Norton.....	New York
M. E., Cornell University, 1894.	
Foster, Bertram Grey.....	New York
Foster, Daniel Shays.....	Pennsylvania
M. D., Georgetown University, 1869.	
Freeman, Alvan H.....	Georgia
Gardner, Henry Finch.....	New York
Gardiner, John Urquhart.....	Wisconsin
Glover, L. K. C.....	Virginia
Graham, Byron Ulmer.....	District of Columbia
Green, Henry D., Jr.....	Alabama
Gregory, Eugene M.....	New Jersey
A. B., Harvard University.	
Grim, Thurlow W.....	Indiana
Griswold, Stewart C.....	Michigan
Groesbeck, Walter Davis.....	Michigan
B. S., Michigan Agricultural College.	
Hall, William Fairfax.....	District of Columbia
Hallam, William Meade.....	Kentucky
Hardy, Robert Sidney.....	Mississippi
Harris, Herbert Frederick.....	Pennsylvania
A. B., Bucknell University, 1896.	
A. M., Bucknell University, 1897.	
Harris, Josiah G.....	Kentucky
Hartmann, Charles.....	Michigan
Hawsworth, Alfred Tennyson.....	New Hampshire
Heth, Robert Mason.....	Virginia
Hittle, James Monroe.....	Pennsylvania
B. S., Fredonia Institute, 1897.	
Hufty, Laurence.....	Virginia

Name.	Residence.
Hume, F. Charles.....	Texas
B. Lit., University of Texas.	
Husted, Glenn E.....	Michigan
Jacobs, S. Howard .....	Virginia
Jamison, Paul B. ....	Michigan
Jansen, Thomas Egbert.....	New York
Keener, William Morse.....	Maryland
Kline, Aubrey .....	Virginia
Lieuallen, Thomas T.....	Missouri
List, M. Creel .....	Washington
Mattingly, William F., Jr.....	District of Columbia
A. B., Princeton University, 1896.	
May, George T., Jr.....	District of Columbia
McClure, Charles, Jr.....	Minnesota
B. L., University of Minnesota, 1897.	
McClure, James B.....	Iowa
McMullen, Adam.....	Nebraska
A. B., University of Nebraska, 1896.	
McRoberts, Charles Gregory.....	District of Columbia
Milans, Joseph Hercus.....	District of Columbia
Milburn, Charles Coad.....	Washington
Morgan, T. Frank.....	Virginia
Murphy, Thomas James.....	North Carolina
Norris, William C.....	Maryland
Owen, Charles Wesley.....	Michigan
Parkes, George Preston .....	North Dakota
Parks, Charles W.....	District of Columbia
C. E., Rens. Polytechnic Institute.	
Parmelee, George H .....	District of Columbia
Paschal, Samuel Scoville.....	District of Columbia
Patterson, Alvah W.....	Oregon
Pierce, Harry Alleman.....	District of Columbia
Potts, Theron.....	New York
Rastell, Charles Wesley .....	New Jersey
Reader, Jabe C.....	Texas
Ridgway, Thomas Caldwell.....	Illinois
Rohrback, Howard Lemon.....	Pennsylvania
Smith, Charles Dorsey.....	Maryland
Smith, Edgar A.....	Iowa
Snell, Frank Hiram.....	District of Columbia
A. B., Yale University, 1882.	



Name.	Residence.
Spaulding, John Cecil.....	Michigan
A. B., University of Michigan, 1897.	
Stallcup, James Alfred.....	Missouri
Thomas, Hillebert Ward.....	Michigan
Townsend, George Alfred, Jr....	Maryland
Towson, Richard M.....	Virginia
Twinn, Clark James.....	New York
Tyssowski, Joseph Gorham.....	District of Columbia
Vaill, Edward W., Jr.....	
B. S., Worcester Polytechnic Institute.	
Vieth, Henry Albin.....	Wisconsin
Weimer, George V.....	Michigan
Wells, Albert Coulter.....	Pennsylvania
Westcott, Charles D.....	District of Columbia
Wheeler, Levi Woodbury.....	New Hampshire
White, William Frye.....	Maine
A. B., Bowdoin College, 1897.	

*Bachelor of Arts.*

Altschu, John Henry.....	District of Columbia
Bacon, Charles Baldwin.....	Massachusetts
Cockerille, Paul.....	District of Columbia
Draper, Lida.....	District of Columbia
Harlan, Rolvix.....	Maryland
Hobson, Alphonzo Augustus.....	Maryland
McKelden, Alice Madeleine.....	District of Columbia
Norris, Etheldreda Lord.....	New Jersey
Peelle, Stanton Canfield.....	District of Columbia
Smith, Ina Augusta.....	Vermont

*Bachelor of Science.**In Architecture.*

Brown, Archibald Webster..	Maryland
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*In Chemistry.*

Blakelock, David Holmes.....	District of Columbia
Hillyer, William Eldridge.....	Florida
Lupton, Edward Janney Sidwell.....	West Virginia
Townsend, Clinton Paul.....	Louisiana

## In Civil Engineering.

Name.	Residence.
Boyle, Eldridge Roger .....	Maryland
Hayes, Roy Bagley.....	Wisconsin
Weller, Francis Repetti.....	District of Columbia

## In Electrical Engineering.

Alexander, John Phipps.....	Tennessee
Marean, Guy Bennett.....	District of Columbia
Portner, Robert F.....	District of Columbia

## In Geology and Mineralogy.

Twitchell, Mayville William.....	New York
----------------------------------	----------

## In General Science.

Armstrong, John Elmer.....	New York
Beeler, George Lowman.....	Illinois
Buxton, Bronson Chapin.....	Virginia
Cutter, Edwin Kendall..	District of Columbia
Eldridge, Maurice Owen.....	Tennessee
Hood, Charles Emerson.....	District of Columbia
Hopkins, Nevil Monroe.....	District of Columbia
Manning, William Saunders.....	District of Columbia
Mason, Selma Marstella.....	Virginia
Newlands, Frances Clara.....	Nevada
Ray, Preston Blair.....	Maryland
Raybold, George Irving.....	District of Columbia
Todd, George Carroll.....	Virginia
Underwood, Lineas Dott.....	Ohio
Yancey, Katherine Lulalia.....	Virginia

## In Language and Literature.

Hiatt, James Edgar.....	Indiana
-------------------------	---------

## In Mechanical Engineering.

Marean, Ralph Brewster.....	Pennsylvania
Meigs, Orton Love.....	District of Columbia
Skinner, Frank Eugene.....	Maryland

## GENERAL SUMMARY.

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### OFFICERS OF GOVERNMENT AND INSTRUCTION.

Trustees .....	18	
Professors .....	79	
Associate Professors.....	3	
Assistant Professors.....	8	
Lecturers .....	6	
Instructors.....	14	
Assistants .....	8	
Demonstrators.....	30	
Other Officers.....	5	
	171	

### STUDENTS.

Columbian College.....	91	
Corcoran Scientific School.....	252	
School of Graduate Studies ...	99	
Law School .....	254	
School of Comparative Jurisprudence and Diplo- macy .....	113	
Medical School.....	213	
Dental School.....	71	
Summer School of 1899.....	54	
	1,147	
Total.....	1,318	

### DEGREES CONFERRED IN 1899.

Honorary. ....	3	
Upon examination.....	268	
	271	

## GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

Alabama.....	11	Massachusetts..	29	South Carolina.	11
Arkansas.....	4	Michigan.....	32	South Dakota..	1
California.....	5	Minnesota.....	19	Tennessee.....	24
Colorado.....	5	Mississippi.....	13	Texas.....	17
Connecticut....	14	Missouri.....	20	Utah.....	4
Delaware.....	4	Montana.....	3	Vermont.....	5
Dist. of Col....	331	Nebraska.....	6	Virginia.....	108
Florida.....	5	Nevada.....	2	Washington....	1
Georgia.....	15	New Hampshire	9	West Virginia..	12
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# THE COLUMBIAN UNIVERSITY.

CATALOGUE,

1900-1901.

ANNOUNCEMENTS,

1901-1902.

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WASHINGTON, D. C.

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JUDD & DETWEILER, PRINTERS.

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## CALENDAR.

1900.

Sept. 24, *Monday*.—Fall Examinations in Medical School and Dental School.

\* Sept. 24–26, *Monday to Wednesday*.—Examinations for Admission to Columbian College.

Sept. 26, *Wednesday*.—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Oct. 1, *Monday*.—Academic Year begins in Law School, School of Comparative Jurisprudence and Diplomacy, Medical School, and Dental School.

Nov. 29–Dec. 1, *Thursday to Saturday*.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1900, to JANUARY 1, 1901, INCLUSIVE.

1901.

Jan. 30, *Wednesday*.—Annual Meeting of the General Association of Alumni.

Feb. 1, *Friday*.—Mid-year Examinations completed in Columbian College.

Feb. 2, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Feb. 4, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 21, *Thursday*.—Davis Prize Speaking in Columbian College.

Feb. 22, *Friday*.—Washington's Birthday; a holiday.

Mar. 4, *Monday*.—Inauguration Day; a holiday.

April 5, 6, *Friday, Saturday*.—Easter holidays.

May 8, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

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\* All dates inclusive.

1901.

May 11, *Saturday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 13, *Monday*.—Examinations completed in Medical School and Dental School.

May 15, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

May 20, *Monday*.—Doctorate Disputation.

May 25, *Saturday*.—Final Examinations completed and session closed in Corcoran Scientific School.

May 26, *Sunday*.—Baccalaureate Sermon.

May 25–29, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.

May 28, *Tuesday*.—Final Examinations completed and session closed in Columbian College.

May 27, *Monday*.—Commencement of Medical and Dental Schools.

May 28, *Tuesday*.—Commencement of Schools of Law.

May 29, *Wednesday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 29, *Wednesday*.—Annual Meeting of the Board of Trustees.

SUMMER VACATION.

Sept. 21–25, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.

Sept. 25, *Wednesday*.—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Sept. 30, *Monday*.—Fall Examinations in Medical School and Dental School.

Sept. 30, *Monday*.—Academic Year begins in Law School.

1901.

Oct. 1, *Tuesday*.—Academic Year begins in School of Comparative Jurisprudence and Diplomacy.

Oct. 7, *Monday*.—Academic Year begins in Medical School and Dental School.

Nov. 28–30, *Thursday to Saturday*.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1901, TO JANUARY 1, 1902, INCLUSIVE.

1902.

Jan. 31, *Friday*.—Mid-year Examinations completed in Columbian College.

Feb. 1, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Feb. 3, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 21, *Friday*.—Davis Prize Speaking in Columbian College.

Feb. 22, *Saturday*.—Washington's Birthday; a holiday.

Mar. 28, 29, *Friday, Saturday*.—Easter holidays.

May 12, *Monday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 14, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 19, *Monday*.—Examinations completed in Medical School and Dental School.

May 21, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

May 26, *Monday*.—Doctorate Disputation.

June 1, *Sunday*.—Baccalaureate Sermon.

May 31–June 4, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.

1902.

June 3, *Tuesday*.—Final Examinations completed and session closed in Columbian College and Corcoran Scientific School.

June 2, *Monday*.—Commencement of Medical and Dental Schools.

June 3, *Tuesday*.—Commencement of Schools of Law.

June 4, *Wednesday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.

June 4, *Wednesday*.—Annual Meeting of the Board of Trustees.

## EDUCATIONAL ADVANTAGES OF WASHINGTON.

The Columbian University has special educational advantages in virtue of its location at the National Capital. The spirit of nationalism in Washington, the close association with public men and public questions, constitute a humanizing influence of the greatest value in the development of the American scholar. To the undergraduate or graduate student of the arts and sciences, to the professional student in law, diplomacy, medicine, or dentistry, Washington furnishes opportunities and facilities for study unrivalled by any American city. Special libraries and large collections, illustrative of the various arts and sciences, have been accumulated by the action of Congress through a long series of years.

In view of the fact that in collecting such archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall*

be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

To students of Law and of Diplomacy the peculiar advantages of Washington are manifest. The Supreme Court is in session from October to May, and on each Monday morning delivers opinions orally. Students may listen to these and thus keep in touch with the latest utterances of the greatest court. The Supreme Court Library is open to students, and the State Department, with its large library, affords facilities for the study of diplomacy. Congress is in session during the winter, and here the student sees the practical workings of the largest and most important legislative body, and listens to the discussion of matters touching interstate and foreign commerce and diplomatic relations. Here one comes into contact with the practical workings of the National Government in all its parts, and may secure the views and advice of practical men in all the great departments. Many of the lecturers in the Schools of Law occupy the most important official positions in the gift of the nation and speak from a practical knowledge of the subjects they teach.

To students of Medicine and of Dentistry the facilities for study and research are no less remarkable. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. It has an unrivalled collection of anatomical



and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs. At the United States Patent Office are models of every conceivable form of dental instruments. In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

To students of Science Washington is attractive, since scientific investigation conducted by the Government has gathered here a larger number of scientific specialists than are to be found in any other locality. The Washington Academy of Sciences and Affiliated Societies had, in 1900, a membership of 1,965. All branches of the physical and natural sciences are cultivated, and the results of investigations are exhibited. Among scientific institutions accessible to students under proper restrictions are the following: The National Museum; the Department of Agriculture, with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, bio-chemistry, the physics and chemistry of the soil, meteorology in all its phases, entomology, and microscopy; the Treasury Department, with its assay office, laboratory of the Internal Revenue Commissioner, division of architecture, laboratory for testing building materials, Bureau of Statistics, and the Coast and Geodetic Survey, in which are many meteorological and physical laboratories; the Interior Department, including the Geological Survey, with its chemical, physical, geological, mineralogical, paleontological, and other divisions, and the Patent Office, representing in its material and collections all the varied applications of science and the mechanic arts; the Navy Department, including the Naval Observatory, the Nautical Almanac Office, the Hydrographic Office, the Gun Shops, with their physical and chemical laboratories. These are but a few of the many scientific institutions in Washington; it is the one city where the student is sure to find a congenial environment.

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OF  
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## EDITOR OF THE UNIVERSITY CATALOGUE.

WILLIAM ALLEN WILBUR.

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An address list of all graduates is kept at the University by the Secretary of the General Alumni Association. All Alumni are requested to send to him notices of changes in address and any other items of information in reference to graduates or former students of the University.

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- V. GERMANIC LANGUAGE AND LITERATURE.
- VI. GREEK: The Greek Language and Literature.
- VII. HISTORY AND POLITICAL SCIENCE.
- VIII. LATIN: The Latin Language and Literature.
- IX. MATHEMATICS: Pure Mathematics and Mechanics.
- X. PHILOSOPHY.
- XI. PHYSICS.
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Freshman.	9.15-10.10 Mathematics.	{ Greek. German (Ele.). Physics.	Mathematics.	Latin.	Mathematics.
	10.10-11.05 Physics.		English Literature.	{ Greek. Physics.	Latin.
	11.05-12.00 Chemistry.	French.	Chemistry.	Chemistry.	French.
	12.30- 1.25 French.	French (Ele.).	Latin.	German.	{ Greek. German (Ele.).
	1.25- 2.20 German.	English.	German.	English.	French (Ele.).
	2.20- 3.15 Chemical Laboratory.			Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory.			Chemical Laboratory.	
Sophomore.	9.15-10.10 Latin.	English.	History.	{ German. French.	French.
	10.10-11.05 Physics (A. B.).	Physics (A. B.).	Mathematics.	Physics (A. B.).	{ Greek. Physics.
	11.05-12.00 Chemistry.	Mathematics.	Chemistry.	Chemistry.	Latin.
	12.30- 1.25 English.	German.	English.	{ Greek. Physics.	German.
	1.25- 2.20 { Greek. Physics.	French.	French.	History.	Mathematics.
	2.20- 3.15 Chemical Laboratory.	History.	{ Latin. Chemical Labora- tory.	Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory.		Chemical Laboratory.	Chemical Laboratory.	

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HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Junior.	9.15-10.10 German.	Psychology.	German.	English.	English; Politics.
	10.10-11.05 Latin.	Mathematics.	Latin.	Latin.	German.
	11.05-12.00 Psychology.	French.	{ Greek. Physics.	{ English. Politics.	{ Mathematics. Classical Archaeology.
	12.30- 1.25 History.	{ Greek. Physics.	{ Biblical Literature. Psychology.	French.	{ English. Physics.
	1.25- 2.20 English.	Physics.	History.	Biblical Literature.	{ Physics. Physics.
	2.20- 3.15 { Mathematics. Chemical Laboratory.	Biblical Literature.	{ French. Chemical Laboratory.	{ History. Chemical Laboratory.	{ Greek.
Senior.	3.15- 4.15 Chemical Laboratory.		Chemical Laboratory.	Chemical Laboratory.	
	9.15-10.10 Ethics.	German.	Political Economy.	Ethics.	Latin.
	10.10-11.05 Mathematics.	Ethics.	Greek; Physics.	Mathematics.	English.
	11.05-12.00 Latin.	{ English. Physics.	Latin. { French. Biblical Literature	Political Economy.	{ German. Classical Archaeology.
	12.30- 1.25 Political Economy.	{ Greek. Physics. History.	German.	{ French. Greek. Biblical Literature	Physics.
	1.25- 2.20 History. Spanish.	{ History. French. Biblical Literature	English. { Political Science. Chemical Laboratory.	{ Spanish. Chemical Laboratory.	{ Physics. History.
	2.20- 3.15 Chemical Laboratory.	Chemical Laboratory.	Mathematics. Spanish. Chemical Laboratory.	{ History; Chemical Laboratory.	
	3.15- 4.15 Chemical Laboratory.		Chemical Laboratory.		

## I.—BIBLICAL LITERATURE.

PROFESSOR POLLARD.

In this department the history, the contents, and literary forms of the Old and New Testaments are taught. The aim is not theological or dogmatic, but literary and historical, the student being guided into correct methods of Bible study and enabled to realize the cultural value of the Biblical classics.

The following courses were offered for the session 1900-1901 :

1.3-4.\* The Hebrew Prophets and Poets. A study of the national and religious ideals of Israel. † Two hours.

2.3-4. The Hebrew Language. A study of Hebrew Grammar and selected readings from the Hebrew Bible. Two hours.

3.3-4. New Testament Greek. Readings in the Gospels and Epistles, with reference not only to their contents, but also to the Hebraic influence upon the language, and the divergences of the Hellenistic Greek from classic usage. A working knowledge of classic Greek is presupposed.

It has been customary year by year to alternate New Testament with Old Testament courses, both in the literature and the history which is studied in connection with the literature.

## II.—CHEMISTRY.

PROFESSOR MUNROE.

MR. STERRETT, Student-Assistant.

21.1-2. General, Inorganic and Organic Chemistry. Lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Three hours.

Barker's Elementary Chemistry ; Remsen's Organic Chemistry.

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\* Decimals indicate the year in which the course is taken : Freshman, .1 ; Sophomore, .2 ; Junior, .3 ; Senior, .4. Courses open to Juniors and Seniors, .3-4.

† Unless otherwise stated, hours per week throughout the year.

22.1-2. Laboratory Practice. Laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two periods.

Cooke's Laboratory Practice.

23.2. Preparation of and Study of the Properties of Chemical Substances. Three periods.

Thorpe's Inorganic Chemical Preparations ; Appleton's Easy Experiments of Organic Chemistry.

24.3. Qualitative Analysis. Three periods.

Newth's Manual of Chemical Analysis.

25.4. Quantitative Analysis. Three periods.

Newth's Manual of Chemical Analysis.

Students must provide themselves in all the laboratory courses with note-books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University.

### III.—ECONOMICS AND POLITICAL SCIENCE.

#### *Economics.*

PROFESSOR STERRETT.

31.4. Political Economy, using as a text-book Bullock's Introduction to Economics, supplemented with studies in socialism, the labor question, and other current economic and social problems. Three hours.

#### *Political Science.*

PROFESSOR SWISHER.

35.3-4. (a) A study of the nature and development of Political Institutions. (b) A comparative study of Modern Governmental Institutions, especially those of the United States, England, France, Germany, and Switzerland ; conducted with text-book lectures and reports. Two hours, first term.

36.3-4. A study of some Modern Questions of International Politics—*e. g.*, the Eastern Question, the African Question, England in Egypt and the Far East. Lectures. Two hours, second term.

#### IV.—ENGLISH.

PROFESSOR WILBUR.

Courses of study in the department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces. The purpose of the second group of studies is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

##### *Rhetoric and Composition.*

41.1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books: Genung's Practical Elements of Rhetoric; Genung's Handbook of Rhetorical Analysis.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) a verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Two hours.

42.2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Three hours.

43.3-4. English Composition. (Text-book, Wendell's English Composition.) Practice in various forms of discourse and studies in criticism. This is an advanced course in English composition. Essays are written weekly. These are exchanged, and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.



*Language and Literature.*

44.1. The Literature of England. A lecture course, historical and critical. Members of class will read Taine's History of English Literature and make a special study also of some period. One hour.

45.3-4. The Literature of America. A lecture course, historical and critical. Members of the class will read Wendell's Literary History of America, and will prepare special studies of representative books (three hours, second term, 1900-1901). One hour, 1901-1902.

46.3. English Poetry. A critical study of standard poetry from Chaucer to Tennyson (not given in 1900-1901). Three hours.

47.3. The English Novel. Development of the Novel, with critical studies of selected works, including some of the best contemporary fiction (not given in 1901-1902). Three hours, first term.

48.4. Shakespeare. Two groups of Shakespearian plays are studied during the session of 1900-1901: the first half year a group of comedies studied in the chronological order, with special reference to the growth of the poet's art and personality; the second half year the English Historical plays studied in the historical order, with special reference to the elements of unity constituting these plays as parts of a great historical drama. The tragedies of Shakespeare will be studied in 1901-1902. The Temple Shakespeare is recommended. Three hours.

49.3-4. Old English. Elementary course. (Text-books: Cook's First Book in Old English; Cook's Exercises in Old English.) The essentials of the grammar and reading of selections from Old English texts. Two hours.

## V.—GERMANIC LANGUAGE AND LITERATURE.

PROFESSOR SCHOENFELD.

MR. CLARK.

Instruction in this department has, as its primary object, a thorough knowledge of the grammar and familiarity with the literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

61.1. The deeper aspects of grammar; accurate training in phonetics and translation into German; conversation; readings from the best German prosaists and poets; Whitney's German Grammar; selected texts. Three hours.

62.2. Advanced course in German syntax; extensive translation into German; selected advanced prose; classical reading and literature; elements of German history. Three hours.

63.3. Study of the principal difficulties of the language; idioms, synonyms; German essays; literature of the second German Blüteperiode; German history and science; extensive reading from the classics. Three hours.

64.4. Elements of philology; survey of German literature and its relation to the other Germanic peoples; history of the old and the new German Empire; further classical reading in Goethe's *Faust*; introduction into the *Nibelungen Lied* and the *Gudrun Saga*; introduction to Gothic. Three hours.

*Elementary German.*—For those students who have not fulfilled the entrance conditions in German, a preliminary course (not counting toward a degree) is given in elementary grammar, narrative prose, and such poetry as is usually found in a First Reader. Special stress is laid on exercises in composition. Otis' Elementary German Grammar. Three hours.

## VI.—GREEK AND CLASSICAL ARCHÆOLOGY.

*Greek.*

PROFESSOR CARROLL.

ASSISTANT PROFESSOR SMITH.

The aim of the instruction in this department is threefold: (1) to enable the student, by the mastery of vocabulary, inflections, syntax, and idiom, to read Greek with accuracy and readiness; (2) to cultivate the student's literary sensibilities and habits of accurate expression through the study of the masterpieces of Greek literature; and (3) to give a clear insight into the life, genius, and achievements of the Greeks.

The following courses are offered:

81.1. Homer (Odyssey, Books V–VIII); Herodotus (Selections); Xenophon (Hellenica). Three hours.

82.2. Lysias (selected Orations); Demosthenes (Olynthiacs and Philippics); Euripides (Alcestis and Medea). Three hours.

83.3. Thucydides (Book VII); Æschylus (Seven against Thebes); Sophocles (Antigone and Œdipus Tyrannus); Aristophanes (The Frogs or The Birds). Three hours.

84.4. Plato (Apology, Crito, selections from Phædo and other Dialogues); Elegiac, Iambic, and Lyric Poets (Selections); Theocritus, Bion, and Moschus (Selections). Lectures on the History of Greek Literature. Three hours.

Greek Prose Composition in Freshman, Sophomore, and Junior Classes.

*Classical Archæology.*

PROFESSOR CARROLL.

For a proper appreciation of the languages, literatures, and history of Greece and Rome, some knowledge of ancient life and arts is essential. To meet this need, the following cycle of courses in Classical Archæology, extending over a period of

three years, is offered. Each course consists of weekly lectures, illustrated by maps, plans, photographs, and lantern slides, supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a one-hour elective for Juniors and Seniors, but the lectures are open to all students of the College.

91.3-4. Athens and Rome. A study of the history, topography, and monuments of the chief centers of ancient life. One hour, 1900-1901.

92.3-4. Private Life of the Greeks and Romans. A study of the ancient house, its architecture, furniture, and ornamentation; family life; education and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies, and other aspects of Greek and Roman life. One hour, 1901-1902.

93.3-4. Introduction to Classical Archæology. An elementary course in Greek and Roman architecture and sculpture and other branches of archæology. One hour, 1902-1903.

In all these courses considerable use will be made of the illustrative material accessible in the Corcoran Gallery of Art, the Smithsonian Institution, and the Halls of the Ancients.

## VII.—HISTORY.

PROFESSOR SWISHER.

The required work in history is in the Sophomore year, and it embraces a careful survey of the more important facts of Mediæval History in their relation of cause and effect. It is designed almost exclusively as a preparation for the fuller election of the two following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the School of Graduate Studies. The work is conducted by means of text-books, lectures, reading, and reports, in all of which it is sought to familiarize the student with original sources.

*European History.*

101.2. Mediæval History. Three hours, first term.

102.2. Renaissance and Protestant Reformation. Three hours, second term.

103.3. Rise and Fall of French Ascendency. Three hours, first term.

104.3. French Revolution and Napoleonic Wars. Three hours, second term.

105.4. Political History of Europe, from Congress of Vienna to that of Berlin. Three hours, first term.

106.4. Present Political Situation in Europe. Three hours, second term.

*English History.\**

107.3 4. English History through the Revolution of 1688. Three hours, first term.

108.3-4. The British Empire—Development and Expansion after the Treaty of Utrecht. Three hours, second term.

109.3-4. English Constitutional History. Two hours, one term.

*American History.\**

110.3 4. Colonial and Revolutionary Periods to the Adoption of the Federal Constitution. Three hours, first term.

111.3-4. Political Development of the Nation from the Adoption of the Constitution to the Present Time. Three hours, second term.

112.3-4. American Constitutional History. Two hours, one term.

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\* Given in alternate years.

## VIII.—LATIN.

PROFESSOR CARROLL.

ASSISTANT PROFESSOR SMITH.

The instruction in this department has in view (1) as thorough knowledge as possible of the idiomatic forms and syntactical relations of the Latin Language; (2) an appreciation of the genius of the Roman people as set forth in their literature. The former is sought through careful translation into English at each recitation, and one exercise each week in Latin Prose; the latter through informal lectures, suggested by the text under discussion, on the origin and development of the different branches of literature, and on social and political life.

The following courses, subject to slight changes, are given :

121.1. Livy (Books I and XXI); Cicero (de Senectute). Three hours, first term.

122.1. Horace (Odes and Epodes); reading at sight from selected prose authors. Three hours, second term.

123.2. Selected Letters of Cicero and Pliny. Three hours, first term.

124.2. Horace (Satires and Epistles); Martial (selected Epigrams). Three hours, second term.

125.3. Tacitus (Agricola, Germania, Dialogus de Oratoribus and Selections from the Annals). Three hours, first term.

126.3. Plautus and Terence (selected Plays); Juvenal (the principal Satires). Three hours, first term.

127.4. Quintilian (Book X); Catullus and the Elegiac Poets. Three hours, first term.

128.4. Lucretius; Vergil (Eclogues and Georgics). Lectures on the History of Latin Literature. Three hours, second term.

Prose Composition in Freshman, Sophomore, and Junior classes.

## IX.—MATHEMATICS.

PROFESSOR GORE.

In this department instruction is offered in twelve courses.

141.1. Solid Geometry; Gore's Plane and Solid Geometry. Three hours, for two months.

142.1. Algebra, including Determinants; Taylor's Algebra. Three hours, for three months.

143.1. Plane Trigonometry; Wells' Trigonometry. Three hours, for two months.

144.2. Spherical Trigonometry; Wells' Trigonometry. Three hours, for two months.

145.2. Analytic Geometry; Nichols' Analytic Geometry. Three hours, for four months.

146.2. Theory of Equations; Chapman's Theory of Equations. Three hours, for two months.

147.3. Differential and Integral Calculus, Taylor. Three hours, for five months.

148.3. Differential Equations; lectures, notes by the professor. Three hours, for three months.

149.4. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours, for one term.

150.4. Elliptic Functions, Baker. Two hours, for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

*Optional Courses.*

151.4. Analytical Mechanics. One hour.

152.4. Theory of Probabilities, with Applications to Least Squares; lectures, notes by the professor. One hour.

## X.—PHILOSOPHY.

PROFESSOR STERRETT.

The special studies in this department are pursued in the two upper classes.

161.3. Logic. Jevons-Hill, *Elements of Logic*, is used as a text-book. Three hours, for two months.

162.3. Psychology, the aim being to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations.

Dewey and Harris are used as hand-books, with lectures, themes, and constant reference to the leading works on Psychology. Three hours, for three months.

163.3. History of Philosophy. 1. The study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-books—Schwegler and Weber. 2. The statement and discussion of the fundamental problems of philosophy. Three hours, for three months.

164.4. Ethical Theories—historical course. The Senior Class spends the first half of the year in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. Three hours, first term.

165.4. Theory of Ethics. A critical and constructive theory of Ethics. McKenzie's *Manual of Ethics* and Dewey's *Outlines of Ethics* are used. Three hours, second term.



A course of lectures is also given on the fundamental postulates, concepts, and principles of Christian Ethics.

This is followed by a six weeks' course on the Philosophy of History, or with a course on the Philosophy of Education.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon), and for attendance on the course of papers and discussions before The Society for Philosophical Inquiry, meeting at the University every Tuesday afternoon. The program of the Society for the current year is the Philosophy of Hegel.

*Courses—Alternate and Elective.*

166. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. One hour, first term.

167. History of Ancient Philosophy. Lectures, with study of the text-book, and Zeller's History. Three hours, second term.

168. History of Modern Philosophy (alternating with course 167). Lectures, with study of the text of several systems and with reference to Falkenburg and Windelband. Three hours, second term.

169. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. Painter and Rosenkranz. One hour, second term.

170. The Metaphysics of Ethics. Study of Green's Prolegomena to Ethics. One hour, second term.

## XI.—PHYSICS.

### PROFESSOR HODGKINS.

181.1-2. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures are illustrated by experiments. Three hours.

182.2. An advanced course on General Physics. This is a theoretical and mathematical course, and it requires a thorough acquaintance with the phenomena of Physics. Three hours.

183.3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course 181. Lectures on physical theories and on laboratory methods are given from time to time. Topics for study and discussion are assigned to the whole class, and to different members of the class are assigned subjects upon which to prepare special reports. Three periods.

184.3-4. A lecture and laboratory course in Magnetism and Electricity. Three periods.

185.3-4. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three periods.

186.3-4. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three periods.

## XII.—ROMANCE LANGUAGES.

PROFESSOR SCHOENFELD.

MR. CLARK.

### *French Language and Literature.*

The instruction in the department is so arranged that a student who pursues French for four years has an opportunity to study every period of the French language and literature down to the present time.

221.1. Survey of French Grammar, with especial stress laid upon phonetics. Modern prose and easy plays, with practice in speaking and writing the language by graded exercises. Selected modern texts. Whitney's Practical French Grammar. Three hours.

222.2 The more delicate aspects of French syntax; study of idioms. Extensive prose composition and translations. Selected

prose and verse of the classic writers of the seventeenth century: Corneille, Racine, Molière; Pascal, Bossuet, Sévigné, la Bruyère. Literature: *La Société Française au XVII<sup>e</sup> siècle*. Three hours.

223.3. Advanced prose composition and historical French Grammar (Brachet). Modern French criticism: Sainte-Beuve, Taine, Faguet. The Romantic movement (Victor Hugo) and its precursors (M<sup>me</sup> de Staël, Chateaubriand). Survey of the poetry of the nineteenth century: Lamartine, Musset, Vigny, Béranger, etc. Pellissier, *Mouvement Littéraire du XIX<sup>e</sup> siècle*. Three hours.

This course will alternate during the academic year of 1901-1902 with the following:

224.3. Prose writers of the eighteenth century: Montesquieu, Voltaire, Diderot, Rousseau. Bernardin's *Morceaux choisis des classiques français du XVIII<sup>e</sup> siècle*, with readings of plays by Regnard, Marivaux, Beaumarchais, Voltaire.

225.4. Historical French Grammar (Brachet) completed. Sixteenth Century: Literature of the Renaissance: Commines, Marot, Rabelais, Ronsard, and the Pléiade, Montaigne; *Le XVI<sup>e</sup> Siècle en France* (Darmesteter et Hatzfeld). Mediæval French Literature: Chronicles of Villehardouin, Joinville, Froissart. Development of Lyric Poetry: Charles d'Orleans, Villon, etc. Brief survey of the field of French literature. Three hours.

*Elementary French.*—Elementary instruction (not counting toward a degree) is provided for students not meeting the entrance requirements. Keetels' Elementary French Grammar. Three hours.

### *Spanish Language and Literature.*

(Requirements for admission: Latin, 121, 122.)

231.3-4. The study of the language is taken up with the elements of grammar, pronunciation, and speech. Numerous translations into Spanish required. Ramsey's Elementary Spanish Text-book; Elementary Spanish Reader; selected texts. Three hours.

DEPARTMENTS IN THE CORCORAN SCIENTIFIC SCHOOL OPEN TO  
COLLEGE STUDENTS.

Astronomy (see page 63).

Botany (see page 64).

Geology and Mineralogy (see page 73).

Zoölogy (see page 91).

ADMISSION.

The College is open to young men and young women.

The session of 1901-1902 begins September 25, 1901.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

I.

*Admission to Courses Leading to Degrees.*

Candidates for admission to the Freshman Class are examined in certain required books and subjects. Certificates, in lieu of any or all examinations, will be accepted (1) from schools whose work is attested by well-prepared students admitted to the College in previous years, and (2) from schools desiring coöperation with the College, that present evidence of affording adequate preparation in the required books and subjects. The chairman of the Committee on Admission of Students will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board for the Middle States and Maryland will be accepted in so far as the subjects specified meet the requirements of the College.

The certificate of the Washington High Schools covering all the College requirements admits students without examination to the courses of the Freshman year.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., in May. A second examination is held at the

beginning of the college year, in September. The following is the schedule for both examinations:

### ORDER OF ENTRANCE EXAMINATIONS.

*May 25 and September 21, 1901.*

[Registration of applicants in room 25.....	8.30- 9.00]
Latin .....	9.00-11.00
Plane Geometry.....	11.00- 1.00
Algebra (a).....	2.00- 4.00

*May 27 and September 23.*

Greek ; Physics ; Chemistry.....	9.00-11.00
History . . . . .	11.00- 1.00
German . . . . .	2.00- 4.00

*May 28 and September 24.*

Plane Trigonometry.....	9.00-11.00
French... . . . .	11.00- 1.00
English . . . . .	2.00- 4.00

*May 29 and September 25.*

Algebra (b).....	9.00-11.00
Solid Geometry.....	11.00- 1.00

The College is prepared to appoint examinations in any city, or at any school where the number of applicants or the distance from Washington may warrant it. Correspondence on this subject should be addressed to the Dean of the University.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

*Candidates for admission to the course leading to the degree of Bachelor of Arts* are examined in English, Latin, Greek and Roman History, French or German, Algebra (a), Plane Geometry, and in Greek or in three years' work in French and German.

*Candidates for admission to the course leading to the degree of Bachelor of Science* are examined in English, Algebra (a), Algebra (b), Plane Geometry, Solid Geometry, Plane Trigonometry, Physics or Chemistry, English and American History (or Greek

and Roman), and in two of the following languages: French, German, Latin.

Requirements for admission to the several departments are as follows:

*English.*

Candidates are expected to be familiar with the elements of Rhetoric, and no candidate will be accepted whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Practice.*—The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The candidate should read all the prescribed books, but knowledge of them will be regarded as less important than ability to write English. In place of a part or the whole of this test, the candidate may present an exercise-book, properly certified by his instructor, containing compositions or other written work.

The books set for this part of the examination are:

1901 and 1902: George Eliot's *Silas Marner*; Pope's *Translation of the Iliad*, Books i, vi, xxii, and xxiv; *The Sir Roger de Coverley Papers in the Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

1903 to 1905: Shakespeare's *Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers in the Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Rime of the Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice.*—This part of the examination requires a more careful study of each of the works named. It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are :

1901 to 1905 : Shakespeare's *Macbeth* ; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas* ; Burke's *Speech on Conciliation with America* ; Macaulay's *Essays on Milton and Addison*.

*Greek.*

1. Goodwin's or Hadley's *Greek Grammar*.
2. Goodwin's *Greek Reader* or Xenophon's *Anabasis*, Books 1-4.
3. First three books of *Homer's Iliad*.
4. Jones' *Greek Prose Composition*.

Applicants for admission to the Freshman Class are expected to be thoroughly acquainted with the principal topics of the *Greek Grammar* of Goodwin or of Allen's *Hadley*, including the *Derivation and Composition of Words*, *Accent*, and the elements of *Prosody*, especially the construction of *Dactylic Hexameter*.

They will be required to translate into good English two or three passages of the prescribed portions of *Homer*, and also of *Xenophon*, and to show a familiarity with the grammatical forms and constructions included, or with others which might be used instead.

They will be expected to translate at sight selections from one of the other books of the *Iliad* and of the *Anabasis*.

They will also be expected to translate English sentences in connected discourse into idiomatic Greek, with the proper accents and with the mention of other construction which might be used.

*Latin.*

Candidates are expected to have taken a systematic course in *Latin*, extending at least through three years, five times per week ; to have had training in translating English into Latin throughout the entire course, and during the last half, at least, the translation of connected English prose.

It is expected that the following work, barring slight variations, will have been done :

1. *Beginner's Book* and 30 to 40 pages of easy Latin.
2. Four books of *Cæsar*, *Nepos*.

3 Cicero: Catiline Orations, pro Archia, and pro Milone, or its equivalent.

4. First six books of Vergil's *Æneid*.

The examination will be in two parts:

(a.) Translation of passages selected from the work above outlined and a short passage of prose to be read at sight. The translation must be into idiomatic English. To attain facility in this, frequent written translations during the years of preparation are advised.

(b.) The examination in Grammar and Composition for 1901 will be based on the first three orations of Cicero against Catiline. A thorough test of form and syntax will be given. The composition will be connected English based on this vocabulary, and it will contain no construction not found in these orations.

#### *French.*

1. A knowledge of the essentials of the grammar.

2. An ability to read at sight ordinarily easy French prose.

3. An ability to translate easy English exercises into French.

The examination is adapted to the proficiency of those who have studied French in a systematic course of three hours a week for eight months. It consists of three parts, covering the ground indicated above. These parts may not be taken separately.

(a.) The grammatical knowledge required includes the leading uses of the articles (including the "partitive construction"), the formation of the plurals of nouns, and of the feminine forms of adjectives; the comparison of adjectives and adverbs, the distinctions between the two sets of objective forms of personal pronouns, location of objective personal pronouns, negative and interrogative sentences, the entire conjugation of *être*, *avoir*, and the model verbs, and the leading tense forms of the more usual irregular verbs. Rare and unusual words and forms are in all cases excluded.

(b.) The passages set for translation into English are suited to candidates who have read not less than three hundred duodecimo pages from the works of at least two authors; this amount includes sight reading done in class. It is important that all translation be done into clear and idiomatic English.

(c.) The sentences given to be rendered into French are such as would be found in an ordinary text book for beginners.



*German.*

Candidates are expected to have an accurate knowledge of elementary grammar, including the principal syntactical laws of the language. A careful preparatory study of Otis' German Grammar or Joynes-Meissner or Edgren-Fossler or Calvin Thomas' German Grammar (part I) gives sufficient training in the language. The knowledge of the candidate is tested by a written examination in German composition and the writing of an easy theme in German.

The oral examination consists of the reading at sight of narrative prose and such poetry as is usually found in a First Reader. About one hundred and fifty pages of an elementary text-book, accurately studied, is a sufficient preparation. Special stress is laid upon a good German pronunciation.

*History.*

Greek History, through the Roman Conquest, as much as is contained in Myers' History of Greece.

Roman History, as much as is contained in Allen's History of the Roman People.

English History, as much as is contained in Larned's History of England.

American History, as much as is contained in Fiske's History of the United States.

*Mathematics.*

Algebra (*a*). Factoring, fractions, equations of the first degree, with one or more unknown quantities, solution of problems, inequalities, powers and roots, reduction of radicals, quadratic equations.

Algebra (*b*). Quadratic equations, ratio and proportion, progressions, permutations, and combinations, binomial theorem, undetermined coefficients.

Plane Geometry. Demonstrations, constructions, computation of areas.

Solid Geometry. Demonstrations, computation of surfaces and volumes.

Plane Trigonometry, including the solution of trigonometric equations.

*Physics.*

Candidates must show an acquaintance with the more important phenomena of physics, and with the principles involved in the explanation of them. They must be able to solve simple numerical problems, and must understand the metric system. Gage's Introduction to Physical Science or Carhart and Chute's Physics will give suitable preparation, if supplemented by laboratory work. The laboratory note-book must be shown at the time of the examination. One year's study, five periods a week, will probably give the preparation needed; but in any case the entire subject, as treated in a book of the grade indicated above, must be completed.

*Chemistry.*

Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation. This requirement presupposes a systematic course of two hours of class-room exercises and three hours of laboratory work per week for a period of eight months.

## II.

*Admission to Special Courses.*

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study by the head of the department. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

Every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections *not less than three distinct departments, with at least twelve recitations or lectures a week.* The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

No one is admitted as a special student who has within four months of the time of his application been rejected by the Committee on Admissions as a regular student or has within that time become deficient as a regular student.

## III.

*Admission to Advanced Standing.*

Candidates for admission to an advanced class in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued elsewhere.

## DEGREES.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "School of Graduate Studies" in this Catalogue.

*Course of Study Leading to the Degree of Bachelor of Arts.*

(The figures refer to the numbers of the courses in the several departments of the College, as previously described.)

## FRESHMAN YEAR.

Two of the following:

English, 41, 44.	Greek, 81.
Latin, 121, 122.	French, 221.
Mathematics, 141, 142, 143.	German, 61.

## SOPHOMORE YEAR.

Five of the following courses:

English, 42.	{ French, 222; or German, 62.
Greek, 82, 83.	
Latin, 123, 124.	{ Chemistry, 21, 22; or Physics, 181.
History, 101, 102.	

## JUNIOR YEAR.

{ Greek, 84; or Latin, 125, 126.	Philosophy, 161, 162, 163.
Elective, 9 hours a week.	

## SENIOR YEAR.

Elective, 15 hours a week.

*Course of Study Leading to the Degree of Bachelor of Science.***FRESHMAN YEAR.**

Two of the following:

English, 41, 44.

French, 221.

Chemistry, 21, 22.

German, 61.

Physics, 181.

Latin, 121, 122.

**SOPHOMORE YEAR.**

{ French, 222; or

History, 101, 102.

{ German, 62.

Chemistry, 23.

Mathematics, 144, 145, 146.

Physics, 182.

**JUNIOR YEAR.**

Mathematics, 147, 148.

{ Chemistry, 24; or

{ Physics, 183.

Elective, 9 hours a week.

**SENIOR YEAR.**

Elective, 15 hours a week.

**EXAMINATIONS.**

At the end of each term examinations are held in the studies of that term.

The results of the term examinations are combined with those of the daily recitations of the student during the term in order to ascertain his academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and failing to do so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement. In order to graduate, students must obtain at least 75 per cent. in the final examinations on all of the subjects.

Examinations for prizes are concluded three weeks before the end of each academic year.

## ANNUAL PRIZES.

Beside the honors and degrees conferred in the regular course, prizes are annually offered as rewards for special excellence in particular branches of study.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from any Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance in the College for one year.

The Class of '96 James Macbride Sterrett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees may compete.

The Davis Prizes, for excellence in Composition and Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. Senior students pursuing regular courses of study are eligible to compete for these prizes.

## PRIZE AWARDS, 1900.

Staughton Prize, Hubert Bruce Fuller.

Elton Prize, Hubert Bruce Fuller.

Ruggles Prize, Alvis Lemuel Rhoton.

Class of '96 James Macbride Sterrett, Jr., Memorial Medal, Frances Sanders.

First Davis Prize in Elocution, Hubert Bruce Fuller.

Second Davis Prize in Elocution, Samuel N. Haws.

Prizes given by the Enosinian Society :

Gore Prize in Parliamentary Law, Colton Maynard.

Debater's Prize, Samuel Nathaniel Haws.

### ANNUAL COMMENCEMENT.

The Annual Commencement is held on the Wednesday nearest the first of June.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any department are publicly delivered on the same day.

### PUBLIC WORSHIP.

Brief devotional exercises are held in the Hall of the University on every week day except Saturday, at 9 o'clock a. m. All students are expected to attend these services.

### THE LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m. The reading-room is supplied with the most important magazines and reviews.

### UNIVERSITY LECTURES.

Students of the College are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

### DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held annually in the Hall of the University on the day before Washington's Birthday. The Davis Prizes are offered under the following conditions:

The competition is restricted to members of the Senior Class pursuing regular courses of study. Two prizes of equal value

are offered—one to young men presenting original orations, and one to young women presenting original essays. Students wishing to enter the competition should report to the Professor of English not later than January 10, and submit their orations or essays not later than February 1. The prizes are awarded by a committee consisting of three members—one selected by the Faculty of the College, and one by each of the two classes of contestants.

### ORATORY.

Registered students in the College will be admitted to the special course in Oratory in the Schools of Law on the recommendation of the Dean of the College and with the approval of the Dean of the School of Comparative Jurisprudence and Diplomacy. A special fee of fifteen dollars is charged for this course.

### LITERARY SOCIETY.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

### THE CLASSICAL CLUB.

Professor Carroll has organized his graduate and advanced students into a "Classical Club" for the study of such phases of ancient life, literature, and art as cannot be properly treated in the class-room. The Club meets once a month for the treatment of assigned topics, discussion of papers, and reports on Latin periodicals. During the previous sessions the following themes have been subjects of study: Greek Temples in Italy and Sicily, the Roman Forum, Pompeii—its art and its monuments, and the Lyric Poets of Greece and Rome.

## GENERAL REGULATIONS.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered to parents or guardians at the end of each term.

The schedule of recitations is arranged to meet the requirements of the curriculum, and no choice of studies that involves conflicts in recitation periods will be permitted.

Junior and Senior students who desire to elect work in Astronomy, Botany, Geology and Mineralogy, or Zoölogy may avail themselves of the courses offered by the Corcoran Scientific School in those departments.

Electives in the Junior and Senior years to be credited for a degree must be chosen from Junior or Senior subjects.

No student who is a candidat   for a degree may, without special permission of the Faculty, take more than six hours in one academic year in any one department.

No student is permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

## EXPENSES.

Admission fee (paid but once, on entrance).....	\$10 00
Tuition for the year in three or more departments.....	100 00
Tuition for the year in two departments.....	70 00
Tuition for the year in one department.....	50 00
Materials for laboratory courses in Chemistry, each course.....	10 00
Final Diploma Fee.....	10 00

These charges cover all expenses except those incurred through breakage or damage of apparatus, tools, instruments, furniture, or buildings.

Bills are payable semi-annually, in advance.



Students proposing to withdraw from the College will inform the Registrar to that effect. In the absence of such notification, no claims for exemption from fees will be allowed.

## SCHOLARSHIPS.

The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools who attains the highest average in the May entrance examinations. This scholarship continues throughout the College course, and students on this foundation pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars.

The University offers also six scholarships, each running for four years, to be awarded annually to members of the graduating classes of the High Schools of Washington. The scholarships will be divided among the several High Schools in proportion to the number of students in attendance upon each; three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the College course leading to the degree of A. B., or the degree of B. S., as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars, and the admission fee (paid but once, on entrance) of ten dollars; and they will be expected to pursue a regular course, classical or scientific, leading to a degree.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. (For conditions under which these scholarships are assigned, see page 94 of this Catalogue.) The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

## ROOMS AND BOARD.

Desirable rooms, convenient to the University buildings, are obtainable at prices ranging from \$5 to \$15 per month, and good board is offered at from \$15 to \$20 per month. A list of eligible boarding-houses will, upon request, be furnished by the Registrar of the University.

For further information concerning the Columbian College, application may be made to

HOWARD L. HODGKINS,

*Dean of the University.*

## STUDENTS.

*Candidates for Degrees.*

Name.	State.	Address.
Alden, L. Russell .....	D. C.....	809 I. St.
Ames, Gladys.....	D. C.....	1701 21st St.
Ashford, Horace F.....	D. C.....	1763 P St.
Bliss, George R.....	D. C.....	1923 15th St.
Brackett, F. Ely.....	D. C.....	1310 R. I. Ave.
Bradshaw, Henry .....	D. C.....	901 C St., N. E.
Bryson, Herbert J.....	Pa.....	714 12th St., N. E.
Cartagena, Ivan I.....	Porto Rico.	946 N. Y. Ave.
Clark, Bertha Winifred.....	N. Y.....	229 R St., N. E.
Dawson, C. W.....	Ohio.....	Linden, Md.
Evans, Lola May.....	D. C.....	2227 13th St.
Ford, John.....	D. C.....	312 2d St., S. E.
Ford, Mary Elizabeth .....	D. C.....	312 2d St., S. E.
Franzoni, Cecilia.....	D. C.....	605 I St.
Frisby, Florence Elizabeth...	D. C.....	1607 31st St.
Fuller, Charles Franklin.....	D. C.....	612 L St., N. E.
Hance, Eleanor Wilson.....	Va.....	Pension Office.
Hines, William H.....	Me.....	511 13th St.
Homrighaus, Albert Holle...	D. C.....	508 P St.
Knight, Evelyn Estelle.....	D. C.....	1106 Md. Ave., S. W.
Lamb, James Ewin.....	D. C.....	1322 I St.
Leach, Boynton McConnell..	D. C.....	1306 I St.
Lee, Helen.....	Me.....	The Westminster.
Lindsay, Janvier W.....	D. C.....	1305 Roanoke St.
Lynch, Sarah Phebe.....	D. C.....	Brookland, D. C.
Main, Charles W.....	Md.....	1617 17th St.
Mason, Anita Dorsey.....	Va.....	1827 H St.
Matson, John Warren.....	Md.....	Berwyn, Md.
McCullough, Max.....	D. C.....	406 11th St., N. E.
McGroarty, Lucina Frances..	Ala.....	123 5th St., N. E.
McIlhenny, Catharine V.....	Ga.....	2122 Conn. Ave.
Merritt, Ella Arvilla.....	Minn.....	154 F St., S. E.
Outwater, Raymond.....	D. C.....	1312 B St., S. W.
Parson, Donald.....	D. C.....	309 N. J. Ave., S. E.
Peck, Paul Noble.....	D. C.....	1102 P St.

Name.	State.	Address.
Potter, Van Albert.....	D. C.....	320 B St., S. E.
Randolph, Frances Howell...	D. C.....	1710 Corcoran St.
Richards, L. Adolph.....	Va.....	1029 9th St.
Robinson, Nathaniel E., Jr..	D. C.....	Brightwood, D. C.
Rowland, William S.....	D. C.....	2115 California Ave.
Sanders, Frances.....	D. C.....	629 S St.
Shallenberger, Josephine P..	Pa.....	906 East Capitol St.
Showalter, M. Genevieve....	Pa.....	1016 East Capitol St.
Smith, Flora Warren.....	Minn.....	Kensington, Md.
Solyom, Herbert Louis.....	Md.....	Tennallytown, D. C.
Sperry, Paul.....	Ohio.....	321 Del. Ave., N. E.
Sterrett, Douglas B.....	D. C.....	Columbian Univ.
Tufts, Clarissa B.....	D. C.....	132 D St., N. E.
Turner, M. Elsie.....	D. C.....	414 B St., N. E.
Whitney, Carl E.....	N. Y.....	736 3d St.
Woog, Henry.....	D. C.....	400 T St.
Yoshino, Shozaburo.....	Japan.....	619 F St.

*Special Students.*

Boreing, J. Randall.....	Ky.....	216 New Jersey Ave.
Botkin, Alice Sinclair.....	Mont.....	1623 H St.
Carey, Alfred B.....	Wis.....	1414 N St.
Deis, J. Homer.....	Ohio.....	119 B St., S. E.
Dodge, Olive Van Patten....	D. C.....	111 1st St., N. E.
Dowe, George M.....	D. C.....	1742 Riggs Place.
Glass, Roy Chester.....	D. C.....	1524 Columbia Road.
Greene, Robert Craig.....	D. C.....	904 S St.
Hunt, Julia Herrick.....	D. C.....	1815 M St.
Jones, Fred. C.....	D. C. ....	946 F St., S. W.
Loker, Jean Kemp.....	D. C.....	1333 12th St.
Nakamura, Takashi.....	Japan.....	1204 N St.
Peelle, Stanton C.....	D. C.....	The Concord.
Rhoton, Alvis Lemuel.....	Ky.....	536 20th St.
Thompson, Amy Greer.....	D. C.....	1718 Oregon Ave.
Yamada, Fukusaburo.....	Japan.....	619 H St.

Total..... 68

# THE CORCORAN SCIENTIFIC SCHOOL.

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## THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

HOWARD L. HODGKINS, PH. D.,  
*Dean,*  
Professor of Mathematics.

CHARLES E. MUNROE, PH. D.,  
Professor of Chemistry.

REV. SAMUEL M. SHUTE, D. D.,  
Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,  
Professor of Geodesy.

CLEVELAND ABBE, A. M., LL. D.,  
Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,  
Professor of German.

HARRY KING, LL. B.,  
Emeritus Professor of Drawing.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology and Mineralogy.

JOSIAH PIERCE, JR., A. M.,  
Professor of Applied Geometry.

ANDREW F. CRAVEN, PH. D.,  
Professor of Politics and Economics.

## THE COLUMBIAN UNIVERSITY.

EDWARD FARQUHAR, PH. D.,  
Professor of History.

FRANK A. WOLFF, PH. D.,  
Professor of Physics and Electrical Engineering.

F. LAMSON-SCRIBNER, B. S.,  
Professor of Botany.

C. F. MARVIN, M. E.,  
Associate Professor of Meteorology.

EDWARD B. POLLARD, PH. D.,  
Professor of Biblical Literature.

MARATHON M. RAMSEY, A. M.,  
Professor of Romance Languages.

WILLIAM ALLEN WILBUR, A. M.,  
Professor of English, and Secretary of the Faculty.

AINSWORTH R. SPOFFORD, LL. D.,  
Professor of Library Science.

HERBERT L. RICE, M. S.,  
Professor of Astronomy.

GUSTAV AYRES, M. E.,  
Professor of Mechanical Engineering.

THEODORE F. LAIST, B. S.,  
Professor of Architecture.

MITCHELL CARROLL, PH. D.,  
Professor of Latin.

HENRY A. PRESSEY, B. S.,  
Professor of Civil Engineering and Acting Professor of Applied  
Mathematics.

ERNEST L. THURSTON, C. E.,  
Professor of Drawing.

REV. E. N. KIRBY, A. B.,  
Professor of Philosophy.

PAUL BARTSCH, B. S.,  
Professor of Zoölogy.

WILBUR F. DALES, PH. D.,  
Assistant Professor of Latin and Greek.

W. EDWIN PRIEST,  
Assistant Professor of History.

HENDERSON PRESNELL,  
Assistant Professor of Library Science.

WILLIAM P. CUTTER, B. S.,  
Assistant Professor of Library Science.

THOMAS A. WILLIAMS, A. M.,  
Assistant Professor of Botany.

EDWARD A. MUIR, B. S.,  
Assistant Professor of Drawing.

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INSTRUCTORS AND ASSISTANTS.

T. W. STANTON, PH. D.,  
Instructor in Paleontology and Stratigraphical Geology.

H. GRANT HODGKINS, A. B.,  
Instructor in Mathematics.

CHARLES E. McNABB, LL. M.,  
Instructor in Business Law.

RAYMOND SAYER,  
Instructor in Shades and Shadows and in Perspective.

REED PAIGE CLARK, A. B.,  
Instructor in French.

**THE COLUMBIAN UNIVERSITY.**

**CHARLES S. HYDE, A. M.**

Instructor in German.

**R. E. BAKENHUS, B. S.,**

Instructor in Civil Engineering.

**FAIRFAX BAYARD, C. E.,**

Instructor in Applied Mathematics.

**PETER FIREMAN, PH. D.,**

Instructor in Physical Chemistry.

**CHRISTIAN G. STORM, M. S.,**

Instructor in Chemistry.

**N. MONROE HOPKINS, M. S.,**

Instructor in Chemistry.

**MAYVILLE W. TWITCHELL, M. S.,**

Instructor in Geology.

**CHARLES K. EDMUNDS, A. B.,**

Instructor in Physics.

**F. E. MILLIS, PH. D.,**

Instructor in Astronomy.

**EDWARD WILTON DONN, JR., B. S.,**

Instructor in Pen-and-ink Rendering.

**FRANCIS B. WHEATON,**

Instructor in Elementary Building Construction.

**U. S. J. DUNBAR,**

Instructor in Freehand Drawing.

**OSCAR G. VOIGT, B. S.,**

Instructor in Architectural Drawing.

**JAMES HENRY MOSER,**

Instructor in Water Colors.

**JULES MAILLET,**

Assistant in French.



WINTER F. BOWEN,  
Assistant in Assaying.

NORMAN UNDERWOOD,  
Assistant in Chemistry.

LISARDO JOSÉ PABLO GARETTA, B. S.,  
Assistant in Spanish.

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LECTURERS.

OTIS T. MASON, PH. D., LL. D.,  
Lecturer on Anthropology.

THOMAS M. CHATARD, PH. D.,  
Lecturer on Chemical Engineering.

CARROLL D. WRIGHT, LL. D.,  
Lecturer on Social Statistics.

CABELL WHITEHEAD, PH. D.,  
Lecturer on Metallurgy.

JOSEPH C. HORNBLOWER, PH. B.,  
Lecturer on Architectural History.

FRANK L. AVERILL, C. E.,  
Lecturer on Advanced Building Construction.

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The School of Science is called the Corcoran Scientific School in grateful recollection of the many benefactions of W. W. Corcoran to the University.

The exercises of the School begin Wednesday, September 25, 1901, and are held in University Hall (southeast corner of Fifteenth and H streets, N. W.), which is constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the full courses of study leading to the degree of Bach-

elor of Science, as described below, or they may take special courses in any of the departments.

Candidates for admission to the Freshman Class should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free-hand and Mechanical Drawing.

The following courses of study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfil the requirements:

## COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

### *Freshman Year.\**

(Common to all Courses.)

- |  |  |
|--|--|
| †(1) Architecture, 1.<br>Free-hand Drawing.            | (3) English, 1, 4.<br>Rhetoric; Literature of England. |
| (3) Chemistry, 1.<br>General Chemistry.                | (5) Mathematics, 1, 2.<br>Algebra; Geometry.           |
| (2) Drawing, 1.<br>Mechanical and Geometrical Drawing. | (2) Romance Languages, 1.<br>French.                   |

### COURSE I—GENERAL.

#### *Sophomore Year.*

- |  |  |
|--|--|
| (2) German, 1.<br>(3) Mathematics, 3, 4.<br>Trigonometry; Analytic Geometry. | (4) Mineralogy, 1.<br>Descriptive Mineralogy.<br>(3) Physics, 1.<br>General Physics. |
|--|--|
- Elective, eight hours a week.

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\*Students in Course X will take Course 2 in Architecture (Architectural Drawing) in addition to the above.

†The numbers in parentheses give the number of hours or periods per week. The numbers following the subjects refer to the special topics in the various Departments of the Corcoran Scientific School.

• *Junior Year.*

- |  |                |
|--|----------------|
| (2) Geology, 1.<br>Systematic Geology. | (2) German, 2. |
| Elective, thirteen hours a week.       |                |

*Senior Year.*

- |   |                              |
|---|------------------------------|
| (2) Astronomy, 1.<br>General Astronomy. | (2) Philosophy, 2.<br>Logic. |
| Elective, thirteen hours a week.        |                              |

The subjects specified in the General Course are required of all candidates for degrees, *except* that permission may be given to substitute other courses for the drawing of the Freshman year, and to substitute Botany or Zoölogy for the Mineralogy and Geology of the Sophomore and Junior years. Students desiring to make such substitutions should make written application to the Dean.

## COURSE II—IN CIVIL ENGINEERING.

*Sophomore Year.*

- |  |   |
|--|---|
| (6) Applied Mathematics, 1, 2.<br>Descriptive Geometry;<br>Elementary Mechanics. | (2) German, 1.<br>(3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (6) Engineering, 1, 6.<br>Surveying and Construction.                            | ( $\frac{1}{2}$ ) Mineralogy, 1.<br>Descriptive Mineralogy.                     |
| (1) Architecture, 2.<br>Architectural Drawing.                                   | (3) Physics, 1.<br>General Physics.   |

*Junior Year.*

- |  |  |
|--|--|
| (7) Applied Mathematics, 3,<br>4, 6.<br>Mechanics; Hydraulics;<br>Graphical Statics. | (2) German, 2.<br>(8) Engineering, 3, 5.<br>Railroad Engineering;<br>Sanitary Engineering. |
| (2) Geology, 1.<br>Systematic Geology.   | (2) Mathematics, 5.<br>Calculus.   |

*Senior Year. .*

- |  |  |
|--|--|
| (2) Applied Mathematics, 5.<br>Strength of Materials.                                  | (1) Geodesy (1 term).<br>(1) Mathematics, 7.<br>Least Squares. |
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 2.<br>Logic.                                   |
| (1) Chemistry, 13.<br>Metallurgy of Iron.  |  |
| (10) Engineering, 2, 4, 7.<br>Hydraulic Engineering;<br>Masonry; Framed<br>Structures. |  |

## COURSE III—IN ELECTRICAL ENGINEERING.

*Sophomore Year.*

- |   |  |
|---|--|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (4) Mechanical Engineering,<br>1, 2.<br>Machine Design; Kine-<br>matics. |
| (2) Drawing, 3.<br>Machine Drawing.                           |  |
| (2) German, 1.  | (2) Mineralogy, 1.<br>Descriptive Mineralogy.                            |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. | (6) Physics, 1, 9.<br>General Physics; Phys-<br>ical Laboratory.         |

*Junior Year.*

- |  |  |
|--|--|
| (2) Applied Mathematics, 3.<br>Analytic Mechanics. | (2) Mechanical Engineering, 1.<br>Machine Design.      |
| (2) Geology, 1.<br>Systematic Geology.             | (9) Physics, 2, 3, 10, 14.<br>Electricity; Laboratory. |
| (2) German, 2.                                     |  |
| (2) Mathematics, 5.<br>Calculus.                   |  |

*Senior Year.*

- |   |   |
|---|---|
| (3) Applied Mathematics, 4, 5.<br>Hydraulics; Strength of<br>Materials. | (2) Philosophy, 2.<br>Logic.  |
| (2) Astronomy, 1.<br>General Astronomy.                                 | (11) Physics, 4, 5, 6, 12, 14.<br>Theory and Application of<br>Electricity; Advanced<br>Laboratory; Inspection. |
| (1) Chemistry, 13.<br>Metallurgy of Iron.                               |   |
| (2) Mechanical Engineering, 7.<br>Power Plants.                         |   |

## COURSE IV—IN MECHANICAL ENGINEERING.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 2.<br>Elementary Mechanics.          | (6) Mechanical Engineering,<br>1, 2, 3.                     |
| ( $\frac{5}{2}$ ) Chemistry, 3.<br>Laboratory (first term).   | Machine] Design; Kine-<br>matics.                           |
| (2) Drawing, 3.<br>Machine Drawing.                           | ( $\frac{2}{2}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                         |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

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|--|---|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (13) Mechanical Engineering, 1,<br>2, 4, 5, 6, 7.   |
| (2) Geology, 1.<br>Systematic Geology.               | Machine Design; Kine-<br>matics; Thermodynam-<br>ics; Mechanical Tech-<br>nology; Mechanics of<br>Machinery; Power<br>Plants. |
| (2) German, 2.                                       |   |
| (2) Mathematics, 5.<br>Calculus.                     |   |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.   | (13) Mechanical Engineering, 8,<br>9, 10.                                |
| (1) Chemistry, 13.<br>Metallurgy of Iron. | Machine Design; Machin-<br>ery of Transmission;<br>Measurement of Power. |
|   | (2) Philosophy, 2.<br>Logic.   |

## COURSE V—IN CHEMISTRY (A).

*Sophomore Year.*

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|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (1) Drawing, 2.<br>Machine Drawing.                         |
| (5) Chemistry, 2.<br>Laboratory; General<br>Principles.       | ( $\frac{1}{2}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                         |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |   |  |
|---|--|
| (15) Chemistry, 4.<br>Qualitative Analysis. | (2) Geology, 1.<br>Systematic Geology. |
|   | (2) German, 2.                         |

*Senior Year.*

- |   |   |
|---|---|
| (16) Chemistry, 5, 7, 8, 13.<br>Quantitative Analysis;<br>Assaying; Organic<br>Chemistry; Metallurgy<br>of Steel. | (2) Astronomy, 1.<br>General Astronomy.<br>(2) Philosophy, 2.<br>Logic. |
|---|---|

## COURSE VI—IN CHEMISTRY (B).

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.    | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (5) Chemistry, 2.<br>Laboratory; General<br>Principles. | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

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|---|--|
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) Geology, 1.<br>Systematic Geology.               |
| (2) Mathematics, 5.<br>Calculus.            | (2) German, 2.<br>(3) Physics, 2, 3.<br>Electricity. |

*Senior Year.*

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|---|---|
| (2) Astronomy, 1.<br>General Astronomy.   | (2) Mathematics, 6, 7.<br>Differentials and Least<br>Squares. |
| (13) Chemistry, 5, 8, 13.<br>Quantitative Analysis;<br>Organic Chemistry;<br>Metallurgy of Steel. | (2) Philosophy, 2.<br>Logic.                                  |

## COURSE VII—IN MATHEMATICS.

*Sophomore Year.*

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|--|---|
| (4) Applied Mathematics, 1.<br>Descriptive Geometry. | (2) German, 1.  |
| (2) Civil Engineering, 1.<br>Surveying.              | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) Drawing, 4.<br>Topographic Drawing.              | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) Romance Languages, 2.<br>French.                 | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

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|--|---|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) History, 1.<br>American.  |
| (2) Romance Languages, 3.<br>French.                 | (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three Di-<br>mensions. |
| (2) Geology, 1.<br>Systematic Geology.               | (3) Physics, 2, 3.<br>Electricity.  |
| (2) German, 2.                                       |   |

*Senior Year.*

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|--|---|
| (3) Applied Mathematics, 4, 5.   | (2) Philosophy, 2.<br>Logic.  |
| (4) Astronomy, 1, 2.<br>General and Mathemat-<br>ical Astronomy.   | (3) Physics, 4, 7.<br>Mathematical Theory of<br>Electricity; Mathemat-<br>ical Physics. |
| (4) Geodesy, 1.  |   |
| (2) German, 3.   |   |
| (4) Mathematics, 6, 7, 11, 12.<br>Differential Equations;<br>Least Squares; Theory<br>of Equations; History<br>of Mathematics. |   |

## COURSE VIII—IN METEOROLOGY.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Applied Mathematics, 1.<br>Descriptive Geometry.          | (2) Meteorology, 1.<br>Observational.         |
| (5) Chemistry, 2 or 3.<br>Laboratory.                         | (3) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.           |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

- |  |                                      |
|--|--------------------------------------|
| (2) Applied Mathematics, 3.<br>Analytical Mechanics. | (2) German, 2.                       |
| (2) Botany, 1.<br>Structural and System-<br>atic.    | (2) Mathematics, 5.<br>Calculus.     |
| (2) Geology, 1.<br>Systematic Geology.               | (2) Meteorology, 2.<br>Climatology.  |
|  | (3) Physics, 9.<br>Laboratory.       |
|  | (2) Romance Languages, 2.<br>French. |

*Senior Year.*

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|--|---|
| (2) Applied Mathematics, 4.<br>Hydraulics. | (2) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |
| (2) Astronomy, 1.<br>General Astronomy.    | (2) Meteorology, 3.<br>Special Topics.                              |
| (1) Geodesy.<br>Projections.               | (2) Philosophy, 2.<br>Logic.  |
| (2) German, 3.                             | (6) Physics, 11.,<br>Laboratory.                                    |



## COURSE IX—IN GEOLOGY AND MINERALOGY.

*Sophomore Year.*

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|---|---|
| (2) Botany, 1.<br>Structural and System-<br>atic. | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (4) Civil Engineering, 1.<br>Surveying.           | (3) Mineralogy, 1, 2.<br>Descriptive and Determ-<br>inative.  |
| (2) German, 1.                                    | (3) Physics, 1.<br>General Physics.                           |

*Junior Year.*

- |   |   |
|---|---|
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) German, 2.  |
| (2) Geology, 1.<br>Systematic Geology.      | (2) Mineralogy.<br>Determinative and Crys-<br>tallographic. |
|   | (2) Zoölogy, 1.   |

*Senior Year.*

- |   |  |
|---|--|
| (2) Astronomy, 1.<br>General Astronomy.               | (2) Philosophy, 2.<br>Logic.   |
| (2) Drawing, 4.<br>Topographical Drawing.             | (2) Paleobotany.   |
| (2) Politics and Economics, 10.<br>Political Economy. | (2) Paleozoölogy.  |
| (2) Geology, 2.<br>Applied Geology.                   | (2) Special Lectures on Rock-<br>weathering and Sedimen-<br>tation, Field Methods,<br>etc. |
| (2) Meteorology, 2.<br>General Climatology.           |  |

## COURSE X—IN ARCHITECTURE.

*Sophomore Year.*

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|-------------------------------------|-------------------------|
| (4) Applied Mathematics, 1.         | (2) German, 1.          |
| Descriptive Geometry.               | (3) Mathematics, 3, 4.  |
| (20) Architecture, 3, 6, 9, 10, 15. | Trigonometry; Analytic  |
| History of Architecture;            | Geometry.               |
| Architectural Drawing               | (4) Mineralogy, 1.      |
| and Design; Building                | Descriptive Mineralogy. |
| Construction.                       | (3) Physics, 1.         |
|                                     | General Physics.        |

*Junior Year.*

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|---|---------------------|
| (4) Applied Mathematics, 3, 6.            | (2) Geology, 1.     |
| Mechanics; Graphic Statistics (one term). | Systematic Geology. |
| (22) Architecture, 4, 7, 11, 16, 17.      | (2) German, 2.      |
| History of Architecture;                  | (2) Mathematics, 5. |
| Architectural Design;                     | Calculus.           |
| Building Materials;                       |                     |
| Specifications.                           |                     |

*Senior Year.*

- |                                  |                                |
|----------------------------------|--------------------------------|
| (2) Applied Mathematics, 5.      | (2) Astronomy, 1.              |
| Strength of Materials.           | General Astronomy.             |
| (21) Architecture, 5, 8, 12, 13, | (2) Politics and Economics, 1. |
| 14, 18.                          | Business Law.                  |
| History of Architecture;         | (2) Philosophy, 2.             |
| Architectural Design;            | Logic.                         |
| Building Materials;              |                                |
| Sanitary Science;                |                                |
| Thesis.                          |                                |

## COURSE XI—IN ECONOMICS.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) Politics and Economics, 1.<br>Business Law.               | ( $\frac{3}{4}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) English, 2.<br>English Prose.                             | (3) Physics, 1.<br>General Physics.                         |
| (2) German, 1.  | (2) Romance Languages, 2.                                   |
| (2) History, 1.<br>American.                                  | French.   |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

*Junior Year.*

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|--|---|
| (6) Politics and Economics,<br>2, 4, 7.<br>Finance; Politics and<br>Administration; Eco-<br>nomic Development. | (2) German, 2.<br>(2) History, 2.<br>Ancient History. |
| (2) Geology, 1.<br>Systematic Geology.   | (2) Philosophy, 1.<br>Psychology.                     |
|  | (2) Zoölogy, 1.                                       |

*Senior Year.*

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|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) German, 4.<br>(4) History, 3, 5.<br>Mediæval; English. |
| (2) Botany, 1.<br>Structural and System-<br>atic.  | (2) Philosophy, 2.<br>Logic.                               |
| (6) Politics and Economics, 6,<br>9, 12.<br>Statistics; Political Econ-<br>omy; Sociology. |  |

## COURSE XII—IN LANGUAGE AND LITERATURE.

*Sophomore Year.*

- |   |   |
|---|---|
| (2) English, 2.<br>English Prose.                             | ( $\frac{3}{4}$ ) Mineralogy, 1.<br>Descriptive Mineralogy. |
| (2) German, 1.  | (3) Physics, 1.<br>General Physics.                         |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |   |

Six hours to be chosen from courses in Greek, Latin, and Romance Languages.

*Junior Year.*

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|--|--|
| (3) English, 6 or 7 and 3 or 5<br>or 9.<br>English Poetry or Eng-<br>lish Novel; English<br>Composition or Liter-<br>ature of America or<br>Old English. | (2) History, 1.<br>American.<br>(2) Geology, 1.<br>Systematic Geology.<br>(2) German, 2. |
|--|--|

Eight hours to be chosen from Greek, Latin, and Romance Languages.

*Senior Year.*

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|---|--|
| (2) Astronomy, 1.<br>General Astronomy. | (4) History, 2, 3.<br>Ancient; Mediæval. |
| (2) English, 8.<br>Shakespeare.         | (2) Philosophy, 2.<br>Logic.             |

Eight hours to be chosen from Greek, Latin, German, and Romance Languages.

## COURSE XIII—IN LIBRARY SCIENCE.

*Sophomore Year.*

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|--|---|
| (3) English, 2, 3.<br>English Prose; English<br>Composition.   | (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry. |
| (2) French, 2.   | (4) Mineralogy, 1.<br>Descriptive Mineralogy.                 |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.                           |
| (7) Library Science, 1, 2, 3, 4, 5.<br>Cataloguing; Accession;<br>Classification; Admin-<br>istration. |   |

*Junior Year.*

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|--|--|
| (3) English, 6 or 7; 5.<br>English Poetry or Eng-<br>lish Novel; Literature<br>of America. | (5) Library Science, 6, 7, 8, 9.<br>Administration; Ad-<br>vanced Cataloguing. |
| (2) French, 3.   | (2) Romance Languages, 7.<br>Spanish.  |
| (2) German, 2.   | (2) Zoölogy, 1; or History.  |
| (2) Geology, 1.<br>Systematic Geology.   |  |

*Senior Year.*

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|--|--|
| (2) Astronomy, 1.<br>General Astronomy.  | (2) Philosophy, 2.<br>Logic.           |
| (2) Botany, 1; or History.   | (2) Romance Languages, 11.<br>Italian. |
| (5) Chemistry, 2 or 3; or<br>Physics, 9.<br>Laboratory.  |  |
| (6) Library Science, 10, 11, 12,<br>13, 14.<br>Bibliography; History<br>of Libraries; Refer-<br>ence Work; Thesis. |  |

## COURSE XIV—IN PHYSICS AND MATHEMATICS.

*Sophomore Year.*

- |   |   |
|---|---|
| (3) Applied Mathematics, 1.<br>Descriptive Geometry.                  | ( $\frac{3}{4}$ ) Mineralogy, 1.<br>Descriptive Mineralogy.     |
| ( $\frac{3}{4}$ ) Chemistry, 3 (first term).<br>Qualitative Analysis. | (3) Physics, 1.<br>General Physics.                             |
| (2) German, 1.  | ( $\frac{3}{4}$ ) Physics, 9 (second term).<br>Laboratory Work. |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic<br>Geometry.         | (2) Romance Languages, 2.<br>French.                            |

*Junior Year.*

- |   |  |
|---|--|
| (2) Applied Mathematics, 3.<br>Mechanics.   | (9) Physics, 2, 7, 11.<br>Mathematical Theory of<br>Electricity; Mathemat-<br>ical Physics; Advanced<br>Laboratory Work. |
| (2) Geology, 1.<br>Systematic Geology.  |  |
| (2) German, 2.  |  |
| (4) Mathematics, 5, 8, 9, 10.<br>Calculus; Determinants;<br>Quaternions; Analytic<br>Geometry of Three<br>Dimensions. |  |

*Senior Year.*

- |   |   |
|---|---|
| (2) Astronomy, 1.<br>General Astronomy.                             | (11) Physics, 4, 7, 8, 13.<br>Advanced Mathematical<br>Theory of Electricity;<br>Mathematical Physics;<br>Physical Chemistry;<br>Advanced Laboratory<br>Work. |
| (2) German, 3.  |   |
| (3) Mathematics, 6, 7.<br>Differential Equations;<br>Least Squares. |   |
| (2) Philosophy, 2.<br>Logic.  |   |

## COURSE XV—IN BIOLOGY.

*Sophomore Year.*

- |  |   |
|--|---|
| (2) Botany, 1.<br>Structural and Systematic.               | (3) Mineralogy, 1, 2.<br>Descriptive and Determinative. |
| (2) German, 1.   | (3) Physics, 1.<br>General Physics.                     |
| (3) Mathematics, 3, 4.<br>Trigonometry; Analytic Geometry. | (2) Zoölogy, 1.   |

*Junior Year.*

- |   |  |
|---|--|
| (2) Botany, 2 or 3.                         | (2) Geology, 1.<br>Systematic Geology. |
| (12) Chemistry, 4.<br>Qualitative Analysis. | (2) German, 2.                         |
|   | (2) Zoölogy, 2.                        |

*Senior Year.*

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|--|-------------------------------------|
| (2) Astronomy, 1.<br>General Astronomy.                  | (2) Geology, 2.<br>Applied Geology. |
| (2) Botany, 3 or 2.                                      | (2) Philosophy, 2.<br>Logic.        |
| (2) Drawing, 2.<br>Topographical Drawing.                | (2) Paleobotany.                    |
| (2) Politics and Economics,<br>10.<br>Political Economy. | (2) Paleozoölogy.                   |
|  | (2) Zoölogy, 3.<br>Ornithology.     |

# PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
	Politics, 4.15-5.15. American History, 4.15-5.10. Mediæval History, 5.10-6.00.	Statistics, 4.15-5.15. Ancient History, 4.20-5.15.	Sociology, 4.15-5.15. Mediæval History, 4.15-5.10. English History, 5.10-6.00.
6 to 7	Analytic Geometry. Geology. Italian. Measurement of Power. Mechanics of Ma- terials. Rhetoric. Trigonometry.	Botany III. Chemical Laboratory. Descriptive Geom- etry. Electrical Laboratory. Elementary Elec- tricity. English Composition. French II. French V. Greek Literature. Logic. Mechanical Tech- nology. Physical Laboratory. Theory of Equations. Zoölogy.	Biblical Literature. Elementary Elec- tricity. Elementary Me- chanics. English Literature. German III. Spanish Conversa- tion. Thermodynamics.
7 to 8	American Litera- ture. Architectural De- sign. Calculus. Chemistry. English Novel. Greek II. Mineralogy. Spanish I. Technical Elec- tricity.	Astronomy. Botany I. Chemical Laboratory. Differential Equa- tions. Economic Develop- ment. Electrical Laboratory. English Prose. French I. Library Science III and IX. Organic Chemistry. Ornithology. Physical Laboratory. Sanitary Engineer- ing. Shades and Shadows. Surveying. Thermodynamics.	Chemistry. German II. Latin III. Mechanics of Ma- terials. Measurement of Power. New Testament Greek. Pen and Ink Ren- dering. Physics. Spanish Conversa- tion.



## RECITATIONS AND LECTURES, 1901-1902.

THURSDAY.	FRIDAY.	SATURDAY.
Politics, 4.15-5.15. American History, 4.15-5.10. English History, 5.10-6.00.	Statistics, 4.15-5.15. Ancient History, 4.20-5.15.	Sociology, 4.15-5.15.
Analytic Geometry. Chemistry.  Elementary Electricity.  Graphic Statics.  Hebrew.  Logic.  Trigonometry. Zoölogy.	Analytic Geometry. Geology.  German III.  Power Plants.  Rhetoric.  Spanish II.  Trigonometry.	Electrical Laboratory. Freehand Drawing.  Greek I.  Machine Drawing.  Mechanical Drawing.  Meteorology.  Physical Chemistry. Topographical Drawing.
Astronomy.  Biblical Literature.  Botany I. Business Law.  Calculus.  Greek II.  Library Science XI.  Mechanical Drawing. Ornithology.  Physics. Topographical Drawing.	Economic Development. Geometry.  Geometry (Plane). German II.  Hebrew.  Italian.  Library Science I.  Masonry. Machinery of Transmission. Mineralogy. Shakespeare. Spanish Conversation.	Electrical Laboratory.  Freehand Drawing.  Latin I. Machine Drawing.  Mechanical Drawing.  Physical Laboratory.

## PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY.	WEDNESDAY.
8 to 9	Algebra. Algebra (Preparatory). Analytical Mechanics. Building Construction. Business Law. Greek V. Library Science X. Metallurgy. Old English.  Physics. Spanish II.	Architectural Drawing. Building Construction. Chemical Laboratory. Electrical Laboratory.  Framed Structures. French III. Geometry. Geometry (Plane). Greek III.  Railroad Engineering. Library Science IV. Machinery of Transmission. Organic Chemistry. Physical Laboratory. Political Economy. Shakespeare. Thermodynamics.	Advanced Electricity. Analytical Mechanics. Building Construction. Framed Structures.  German I. Latin IV. Spanish I. Steam Engine.
9 to 10	Advanced Electricity. Elementary Mechanics. Geometry (Plane). Kinematics. Latin IV. Shades and Shadows. Spanish I. Thermodynamics.	Algebra. Algebra (Preparatory). Architectural Drawing. Architectural Design. Chemical Laboratory. Electrical Laboratory.  Finance. French III. Graphic Statics. Hydraulic Engineering. Machinery of Transmission. Mechanical Technology. Organic Chemistry. Physical Laboratory.	Architectural History. Greek I.  Hydraulics.  Kinematics. Steam Engine.

The Laboratories and Drawing-rooms are open every evening.

Chemistry 2 and 3 (laboratory courses), Tuesday from 5 to 10 P. M.

The full course in Assaying occupies three evenings a week for three months.

## RECITATIONS AND LECTURES, 1901-1902.

THURSDAY.	FRIDAY.	SATURDAY.
<p>Advanced Electricity.</p> <p>Botany III.</p> <p>Descriptive Geometry.</p> <p>Differential Equations.</p> <p>French I.</p> <p>Greek V.</p> <p>Library Science XIII.</p> <p>Library Science VII.</p> <p>Library Science VIII.</p> <p>Machine Drawing.</p> <p>Machine Design.</p> <p>Organic Chemistry.</p> <p>Sanitary Engineering.</p> <p>Steam Engine.</p>	<p>Algebra.</p> <p>Algebra (Preparatory).</p> <p>American Literature.</p> <p>English Novel.</p> <p>Framed Structures.</p> <p>German I.</p> <p>Library Science I.</p> <p>Machine Design.</p> <p>Machinery of Transmission.</p> <p>New Testament Greek.</p> <p>Political Economy.</p> <p>Spanish Conversation.</p>	<p>Classical Archæology.</p> <p>Electrical Laboratory.</p> <p>Freehand Drawing.</p> <p>Machine Drawing.</p> <p>Machine Design.</p> <p>Physical Laboratory.</p>
<p>French II.</p> <p>French V.</p> <p>Latin I.</p> <p>Latin III.</p> <p>Least Squares.</p> <p>Library Science XIII.</p> <p>Machine Design.</p> <p>Machine Drawing.</p> <p>Railroad Engineering.</p> <p>Steam Engine.</p> <p>Surveying.</p> <p>Technical Electricity.</p>	<p>Building Construction.</p> <p>English Prose.</p> <p>Finance.</p> <p>Machine Design.</p>	<p>Electrical Laboratory.</p> <p>Machine Drawing.</p> <p>Machine Design.</p> <p>Physical Laboratory.</p>

## DEPARTMENTS OF INSTRUCTION.\*

## ANTHROPOLOGY.

DR. MASON, Lecturer.

## APPLIED GEOMETRY.

PROFESSOR PIERCE, Head of Department.

Courses of lectures on Maps, Surveys, and Instruments, supplementing the regular courses in Engineering, will be given in this department.

## APPLIED MATHEMATICS.

ACTING PROFESSOR PRESSEY.

MR. BAYARD, Instructor.

1. Descriptive Geometry, two hours; and Exercises, two hours.†
2. Elementary Mechanics, two hours.
3. Analytical and Applied Mechanics, two hours.
4. Hydraulics, one hour.
5. Strength of Materials and Theory of Elasticity, two hours.
6. Graphical Statics, two hours; and Exercises, two hours.
7. Stereotomy, one hour, and Exercises.

## ARCHITECTURE.

PROFESSOR LAIST, Head of Department.

MR. HORNBLOWER, Lecturer on Architectural History.

MR. SAYER, Instructor in Shades and Shadows and  
Perspective Drawing.MR. AVERILL, Lecturer on Advanced Building Con-  
struction.

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\*An elective course asked for by less than five students may not be given.

† Unless otherwise stated, hours per week throughout the year.

MR. DONN, Instructor in Pen-and-ink Drawing.

MR. DUNBAR, Instructor in Freehand Drawing.

MR. VOIGT, Instructor in Architectural Drawing.

MR. WHEATON, Instructor in Elementary Building Construction.

MR. MOSER, Instructor in Water Colors.

1. Freehand Drawing. One hour.
2. Architectural Drawing (the five orders). One hour.
3. Ornament. Six hours, Sophomore year.
4. Ornament. Six hours, Junior year.
5. Ornament. Six hours, Senior year.
6. History of Architecture. Egyptian, Assyrian, and Grecian. One hour.
7. History of Architecture. Grecian and Roman. One hour.
8. History of Architecture. Romanesque, Renaissance, and Gothic. One hour.
9. Architectural Drawing. A review of the orders, with details to a large scale ; measured drawings of existing buildings ; copies and enlargements of plans and working drawings. First term, Sophomore year.
10. Architectural Design. Elementary composition ; eight problems or the equivalent. Second term, Sophomore year.
11. Architectural Design. Seven problems or the equivalent. Junior year.
12. Architectural Design. Six problems or the equivalent. First term, Senior year.
13. Thesis. An original design ; a discussion of an architectural problem.
14. Sanitary Science. One hour, one term.

15. Building Construction. One hour, Sophomore year.

16. Building Materials and Construction. Two hours, Junior year.

17. Specifications. One hour, second term, Junior year.

18. Building Materials and Construction. Two hours, first term, Senior year.

19. Inspection of buildings erected or in course of erection.

The assigned problems in courses 4 to 8 will require not less than twelve hours' work a week from each student.

### **The Special Course.**

This course is arranged to suit the requirements of architectural or student draftsmen who may desire to supplement the practical experience of office work with special training in design, rendering, and other technical subjects.

It is also open to others whose previous education is such that they can, in the opinion of the professor in charge, pursue the course to advantage.

No entrance examinations will be required, but a certain degree of proficiency in drawing and the rudiments of architecture is expected.

Special students may enter at any time and pursue any class of work for which they are fitted.

The course comprises all the technical architectural work in the four years' course.

### *Synopsis of Special Course.*

*Drawing*—Projections, shades and shadows, perspective.

*Rendering*—Pen and ink, wash and water color.

Architectural history complete.

Design, elements of architecture, orders, pilasters, pediments, inter-columniations, arcades, doors, windows, balconies, balustrades, domes, towers, etc.

Elementary design, theory of composition, proportion, etc.

Architectural composition, problems.

## ASTRONOMY.

PROFESSOR RICE, Head of Department.

DR. MILLIS, Instructor.

1. General Descriptive Astronomy. Young's General Astronomy, with occasional lectures illustrated with the stereopticon. The student is taught the use of star charts in locating the constellations. When circumstances permit, students will observe telescopic objects of interest, and also make some of the fundamental observations of practical astronomy, which will be used in the solution of problems. Two hours.

2. Mathematical and Theoretical Astronomy. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. The course includes the discussion and application of various formulæ for interpolation and tabular differentiation and the practical precepts for correcting errors by means of differences; considerations respecting the elliptic form of the earth's meridian, and the derivation of formulæ for computing the "latitude reduction" and  $\log \rho$ ; transformations of the various coördinate systems employed in spherical astronomy; the construction and use of the American Ephemeris, or Nautical Almanac, including computations of the principal quantities contained in that fundamental work; a discussion of the laws of planetary (elliptic) motion, and the application of Lagrange's Theorem to the solution of Kepler's problem and similar questions; the definition of the *elements* of an orbit, and their use in fixing the position of a planet in space; the reduction of heliocentric coördinates to geocentric, including the corrections for nutation and aberration, etc., etc. This course is at once thorough and comprehensive, and is designed to meet fully the requirements of both the theoretical student and the practical computer. A thorough training in mathematics is presupposed. Four hours.

## BIBLICAL LITERATURE.

PROFESSOR POLLARD, Head of Department.

1. The Legal and the Wisdom Literature of the Old Testament. This course includes a study of the Mosaic Legislation, Hebrew social, political, and religious customs during the first term, and a study of the books of Job, Proverbs, Ecclesiastes, and Song of Songs during the second term. Two hours.

2. Hebrew Poetry and Prophecy—a study of the national and religious ideals of Israel, with special reference to the development of the Messianic idea. Two hours.

3. History of the Hebrew People—studied in the light of modern excavation and research. Two hours.

4. Life and Times of Jesus, with study of the Apostolic Age. Two hours.

5. The Hebrew Language—grammar and reading in historical and prophetic books of the Old Testament. Two hours.

6. The New Testament Greek. Readings in the Gospels and the Epistles. Two hours.

7. The History of the Bible as a Book. Its transmission from early days to the present time; influence of English versions upon modern life and letters. One hour.

## BOTANY.

PROFESSOR LAMSON-SCRIBNER, Head of Department.

ASSISTANT PROFESSOR WILLIAMS.

1. Structural and Systematic Botany.

The year is devoted to general organography, morphology, and the systematic relationships of flowering plants and the higher cryptogams, with brief outline reviews of the remaining groups. The principles of plant physiology are taught, with emphasis on the function of organs as related to form and structure and the essential facts of plant nutrition, growth, etc.



*Field excursions* are given whenever practicable, and plants are studied in their relations to each other and the surrounding conditions governing their development and distribution. The student is expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. Special attention is given to the larger and more difficult families of flowering plants, such as the graminæ, compositæ, and leguminosæ. The student is also instructed in the proper manner of collecting and preparing plants for the herbarium and directed in beginning the preparation of a local herbarium. Two hours.

Text-books: Bastin's College Botany; Bessey's Essentials of Botany; Gray's Manual of Botany of the Northern United States. Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants; Britton and Brown, Flora of the Northern United States and Canada; Kenner-Oliver Natural History of Plants.

## 2. Histological and Physiological Botany.

The year is devoted to lectures and laboratory work in histology and physiology. The cutting of sections and staining and mounting of botanical objects is described and illustrated, and the student is instructed in the use of the compound microscope in botanical research. The vegetable cell and the various tissues entering into the structure of the higher plants are studied in detail, and the principles governing the phenomena of plant physiology are illustrated by experiments in the laboratory. Two hours.

Reference books: Goodale's Physiological Botany; Bessey's College Botany; Westermaier-Schneider, A Compendium of General Botany; Zimmerman-Humphrey, Botanical Microtechnique; Vines, Lectures on the Physiology of Plants; Detmer-Moor, Practical Plant Physiology.

## 3. Cryptogamic Botany.

This course includes lectures, reading, and laboratory on the structure, morphology, physiology, and biology of the cryptogams. Representatives of the various groups are studied in the laboratory, and field excursions are given for the purpose of collecting and studying the cryptogamic flora of the region. Special attention is given to fleshy fungi, parasitic fungi, bac-

teria, and fresh-water algæ. The student is instructed in the best methods of collecting and preparing these plants for preservation in the herbarium or laboratory for study, and is required to make a small collection of the local flora. Two hours.

Reference books: Bennett and Murray, Cryptogamic Botany; Bessey, College Botany; Vines, A Student's Text-book in Botany; and various monographic works on special groups.

NOTE.—Courses 2 and 3 will be given on alternate years, and must be preceded by course 1.

4. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor, provided that students in sufficient number present themselves.

## CIVIL ENGINEERING.

PROFESSOR PRESSEY, Head of Department.

MR. BAKENHUS, Instructor.

1. Land and Topographical Surveying, with theory and use of instruments. Two hours. Practical Exercises and Field-work, not less than sixty hours during the session.

2. Hydraulic Engineering (Canals, Rivers, Harbors, and Irrigation). One hour. Constructive Exercises. One hour.

3. Railroad and Highway Engineering. Two hours. Field-work as in course 1.

4. Masonry Construction. One hour. Constructive Exercises. Two hours.

5. Sanitary Engineering. Two hours. Design. Two hours.

6. Materials of Construction. Two hours. Exercises. One hour.

7. Framed Structures. Three hours. Design. Two hours.

## CHEMISTRY.

PROFESSOR MUNROE, Head of Department.

DR. CHATARD, Lecturer on Chemical Engineering.

DR. WHITEHEAD, Lecturer on Metallurgy.

MR. STORM, Instructor in Chemistry.

MR. HOPKINS, Instructor in Chemistry.

MR. BOWEN, Assistant in Assaying.

MR. UNDERWOOD, Assistant in Chemistry.

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Five hours.

Text-book: Cooke's Laboratory Practice.

3. Preparation of and Study of the Properties of Chemical Substances. Five hours.

Text-books: Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

4. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius' Qualitative Analysis; Newth's Manual of Chemical Analysis.

5. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius' Quantitative Analysis; Newth's Manual of Chemical Analysis.

6. **Technical Analysis and Industrial Processes.** A lecture and laboratory course in which the elements of chemical engineering are taught, and special attention is given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Wagner's Chemical Technology, Allen's Commercial Organic Analysis.

7. **Assaying and Metallurgy of the Precious Metals,** carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

8. **Chemistry of the Carbon Compounds.** A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text-book: Gattermann's Practical Methods of Organic Chemistry.

9. **Modern Methods of Iron and Steel Analysis,** A laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

10. **Chemistry of Explosive Substances.** A laboratory and field-work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

11. **Advanced course in Organic Chemistry.** Bernthsen's Text-book of Organic Chemistry.

12. **Lectures on the Principles of Analysis.**

13. **Metallurgy of Iron and Steel.** A course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Medical School.

Special attention is paid in all courses to the methods of making notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students prepare a bibliography on some special topic.

Students must provide themselves in all the laboratory courses with note books, towels, suitable clothing, and the necessary equipment for the work. Apparatus and material are supplied by the University.

## DRAWING.

PROFESSOR THURSTON, Head of Department.

ASSISTANT PROFESSOR MUIR.

1. *Mechanical Drawing*.—Two hours, with supplementary exercises.

This course is designed to give a knowledge of the fundamental principles of mechanical drawing and to prepare for higher technical drawing. It includes practice in :

- a. Geometrical and graphical constructions, including higher curves.
- b. Elementary projections, sections, intersections, etc.
- c. Isometric drawing, including representation of wood-joints and Assembly drawings.
- d. Dimensioning, lettering, conventional symbols.
- e. First principles of working drawings, tracings, blue prints, etc.

Special students taking this course may, if they so desire, devote three class periods to the work, taking additional exercises, including color symbols.

2. *Machine Drawing*.—A general course in reading drawings, and in drawing-room practice. One hour. (Special students, two hours.)

- a. Names and arrangements of views and sections.
- b. Conventional methods and nomenclature of machine parts.
- c. General drawing-room practice.
- d. Describing the machine and its operation from the drawing.

3. *Machine Drawing*.—A course for mechanical and electrical engineering students, or for special students. Four hours for one term, Sophomore year.

- a. Projections of intersections and development of surfaces.
- b. Conventional forms and rules.
- c. Elementary working drawings.
- d. Reading of drawings and nomenclature of machine parts.

*Advanced work* for special students. Four hours, second term.

- e. Working drawings and sketches from models.
- f. Detailing from general drawings.
- g. Tracing and blue printing.
- h. Designing by means of graphic methods and empirical formulæ, without the use of higher mathematics.

4. *Topographic Drawing*. Two hours, supplemented by practice.

- a. Technical lines.
- b. Hypsographic expressions, including contours, hachures, and shading.
- c. Topographic, cadastral, and public culture symbols.
- d. Scales and platting.
- e. Projections, reductions, and enlargements.
- f. Compilation, plain and in color.
- g. Statistical and commercial map-work.

5. *Topographic Modeling and Field-work*, including collection of data, the platting of contours, and the construction of card-board and plaster models. Two hours, supplemented by field-work.

6. *Patent Office Drawing*, as required by the rules of the United States Patent Office. Two hours.

7. *Lettering as applied to Topographic, Architectural, and Mechanical Drawing*. Two hours.

- a. Detailed study of three standard alphabets.
- b. Words and phrases—selected from working drawings.
- c. Dimensions.
- d. Titles and headings; display.
- e. Borders, north points, etc.

**NOTE.**—All courses are open to special students.

## ENGLISH.

PROFESSOR WILBUR, Head of Department.

Courses of study in the Department of English are classified, according to their distinctive character, as either rhetorical or literary. The purpose of the first group of studies is (1) to discover by analysis principles of style; (2) to form by constant practice a style based on these principles; (3) to trace the evolution of a standard of writing by a study of prose masterpieces from Elizabeth's time to the present. The purpose of the second group of studies is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

*Rhetoric and Composition.*

1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books, Genung's Practical Elements of Rhetoric; Genung's Handbook of Rhetorical Analysis.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) A verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Two hours.

2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Two hours.

3. English Composition. (Text-book, Wendell's English Composition.) Practice in various forms of discourse and studies in criticism. This is an advanced course in English Composition. Essays are written weekly. These are exchanged and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.

*Language and Literature.*

4. The Literature of England. A lecture course, historical and critical. Members of class read Taine's History of English Literature. One hour.

5. The Literature of America. A lecture course, historical and critical. Members of class read Wendell's Literary History of America, and prepare special studies of representative books. (Two hours, second term in 1900-1901.) One hour.

6. English Poetry. A critical study of standard poetry from Chaucer to Tennyson. (Not given in 1900-1901.) Two hours.

7. The English Novel. Development of the Novel, with critical studies of selected works, including some of the best contemporary fiction. (Not given in 1901-1902.) Two hours, first term.

8. Shakespeare. Two groups of Shakespearian plays are studied during the session of 1900-1901: the first half year a group of comedies studied in the chronological order, with special reference to the growth of the poet's art and personality; the second half year the English Historical plays studied in the historical order, with special reference to the elements of unity constituting these plays as parts of a great historical drama. The tragedies of Shakespeare will be studied in 1901-1902. The Temple Shakespeare is recommended. Two hours.

9. Old English. Elementary course. (Text-books, Cook's First Book in Old English, Cook's Exercises in Old English.) The essentials of the grammar and reading of selections from Old English texts. One hour.

## GEODESY.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.



**GEOLOGY AND MINERALOGY.**

PROFESSOR MERRILL, Head of Department.

DR. STANTON, Instructor in Paleontology and Stratigraphical Geology.

MR. TWITCHELL, Instructor in Geology.

*Mineralogy.*

1. Descriptive Mineralogy. Two hours, first term.

5. Determinative Mineralogy. Four hours, second term.

Mineralogy is taught as introductory to Geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical. It includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection, showing the minerals not merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

*Geology.*

1. Systematic Geology; Geognosy; Dynamical, Structural, and Stratigraphical Geology. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock-weathering and Soils. Two hours.

2. Economic Geology. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration. Two hours.

The course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock-formation by sedi-

mentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under (first) mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (second) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

## GERMAN.

PROFESSOR SCHOENFELD, Head of Department.

MR. HYDE, Instructor.

1. Accurate training in elementary grammar; pronunciation and translation from English into German; exercise in conversation; readings from the easier German prosaists and poets. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc.; extensive translations into German; selected stories; Gore's Science Reader, fourth edition, alternating with Brandt and Day's Science Reading; one or two classics. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache*; special preparation for scientific professional work; Helmholtz on Goethe's work in natural history (edition of Seidensticker); Humboldt's *Kosmos*; critical

studies of German classics; lectures on German literature. Two hours.

4. A special course in German training for advanced students in the Historic and Economic Departments. Schoenfeld's German Historical Prose, Ranke (edited by H. Schoenfeld), and the standard works of German historians and economists will be read. Two hours.

5. An elective course in German conversation will be instituted from the start and conducted with systematic gradation for students of all grades.

## HISTORY.

PROFESSOR FARQUHAR, Head of Department.

ASSISTANT PROFESSOR PRIEST.

1. American History. Text-books: Channing, Eliot, Fiske, Johnston. Reference books: Bancroft, Adams, Von Holst, McMaster, Eggleston, Rhodes. Two hours.

2. Ancient History. No definite text-books are assigned, but reference is constantly made to all standard works available. Instruction is given by lectures, with special reference to the progress of world development. To reproduce vividly the life and thought of each age, tracing gradual growth, cause, and effect, with the great underlying principles of history, is the steady aim of the course. The sub-courses include Egypt, Chaldæa, Assyria, Greece, and Rome. Two hours.

3. Mediæval History. Text-books: Myers, Bryce, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Text-book: Myers. Two hours.

5. English History. Text-books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.

6. Bible History. Lecture course. Reference books: Ancient History generally, with Ewald, Renan. Two hours.

Instruction in this department is given both by text-books

and lectures. The method is rational and comparative rather than precise and mechanical ; the course of human progress and development, the growth of institutions and civilization, receives more emphasis than separate facts. Essay-work is required. The unequalled facilities for historical research afforded by the Capital of the Nation are held in view of the classes.

## LATIN AND GREEK.

### Latin.

PROFESSOR CARROLL.

ASSISTANT PROFESSOR DALES.

1. Elementary Latin. A thorough drill in forms is given. This is facilitated by constant practice in translating from English into Latin and Latin into English. Text-book: Collar and Daniell's First Latin Book. During second term selections from Greenough and D'Oge's Second Year Latin Book are read. Two hours.

2. Nepos and Cæsar. A thorough drill in syntax is given. Prose composition once a week. Two hours.

3. Selected Orations of Cicero. Careful study of periods of Cicero. Lectures on Roman Oratory. Two hours, first term.

Vergil. An effort is made, through the study of versification and poetical usage, to get an appreciation of the poetry of Vergil. Two hours, second term.

Prose composition throughout the year.

4. Cicero's De Senectute, Odes of Horace. Special attention is given to scansion. Several of the odes are memorized. Two hours, first term.

Livy. Books I and II, or XXI and XXII. Study of early history of Rome or of second Punic war. Two hours, second term.

Prose composition throughout the year.

5. Selected Letters of Pliny, Satires and Epistles of Horace. Those satires and epistles are read which best illustrate Horace and his time. Two hours, first term.

Tacitus, *Germania* and *Agricola*, Selected Letters of Cicero. Careful attention given to peculiarities of style of Tacitus. Prose composition. Two hours, second term.

6. Comedy. Plautus (*Captivi*), Terence (*Phormio*). Study of early Latin. Lectures on relation of Roman comedy to Greek comedy. Two hours, first term.

Lucretius, *Selections*. Brief study of the philosophy of the poem. Two hours, second term.

Courses 1, 2, and 3 do not count for a degree.

### Classical Archaeology.

PROFESSOR CARROLL.

For a proper appreciation of the language, literature, and history of Greece and of Rome, some knowledge of ancient life and art is essential; hence the following cycle of courses in classical archæology, extending over a period of three years, is offered. Each course consists of weekly lectures illustrated by maps, plans, photographs, and lantern slides; supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a one-hour elective.

1. Athens and Rome. A study of the history, topography, and monuments of the chief centers of ancient life. One hour, 1900-1901.

2. Greek and Roman Private Life. A study of the ancient house; its architecture, furniture, and ornamentation; family life; education and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies and other aspects of Greek and Roman life. One hour, 1901-1902.

3. Introduction to Classical Archæology. An elementary course in Greek and Roman architecture and sculpture and other branches of archæology. One hour, 1902-1903.

In all these courses considerable use will be made of the illustrative material accessible in the Corcoran Gallery of Art, the Smithsonian Institution, and the Halls of the Ancients.

**Greek.****ASSISTANT PROFESSOR DALES.**

1. Elementary Greek. The thorough mastery of the forms is the object of the first year's work. Constant practice is afforded in translating from Greek into English and from English into Greek. An outline of Greek syntax is acquired. During the latter part of the year the first book of the Anabasis is read. Text-books: White's First Greek Book; Goodwin's Anabasis. Two hours.

2. First half year, Anabasis, Books ii and iii, accompanied by a more thorough study of syntax and review of forms. During the second half year the first three books of the Iliad are read, with some study of the origin and development of Epic Poetry. Two hours.

3. First half year, further study of Epic Poetry, accompanied by the reading of a portion of the Odyssey. The second half year is devoted to Herodotus. A careful study of the dialect is made and some attention is paid to the origin and development of History. Two hours.

4. Greek Oratory. The origin and development of Oratory among the Greeks is fully traced, and especial emphasis is placed upon its importance in any historical study of Greek style. Selections from various orators, especially Lysias and Demosthenes, are read and discussed in class. Two hours.

5. Greek Drama. The work in this course is more advanced, and deals largely with matters literary and historical. Selections from Attic tragedy and comedy are read and discussed. Two hours.

All courses are accompanied by study in grammar and composition.

Courses 1 and 2 do not count for a degree.

**Literature and Linguistics.**

6. Greek Literature: A course of lectures tracing the history of Greek literature to the close of the classical period. This course is designed not merely for Greek students, but for all

who are interested in literary studies. A knowledge of Greek is not necessary. One hour.

7. Linguistic Science: A course of lectures, with some use of a text-book in the latter part of the year. The course is designed for students of either ancient or modern languages. The general principles of Linguistic Science are outlined and illustrated, and sketches are given of the various languages of the Indo-European family. No knowledge of Greek or Latin is necessary. One hour.

8. Elementary Sanskrit: A fair knowledge of either Greek or Latin is presupposed. The fundamental principles of Sanskrit grammar are set forth by the use of a grammar and by informal lectures. The latter part of the year is devoted to the reading of easy narrative. Two hours.

## LIBRARY SCIENCE.

PROFESSOR SPOFFORD, Head of Department.

ASSISTANT PROFESSOR PRESNELL.

ASSISTANT PROFESSOR CUTTER.

The intention in these courses is to provide such practical instruction as shall fit students for positions as librarians or library assistants, making the instruction thorough, and training pupils for habits of research, qualifying them for other equally advanced employments.

1. Elementary Cataloguing. Practice in cataloguing such books as will best illustrate the main features of cataloguing. Cards are returned to students after correction, and may be preserved. Lectures will be given on catalogue rules, on the different forms of printed and written catalogues, on methods of duplication, and on the mechanical accessories used. Two hours.

2. Accession Department Work. Inspection and purchase of books. Reception, checking bills, collation, preparation for shelves. Accessioning. Order slips, order and serial blanks. One hour.

3. Elementary Classification and Shelf Department Work. Lectures on classification systems and notations; on shelf arrangements, shelf-listing, and stock-taking. One hour.

4. Library Administration. Loan systems. Methods of registering borrowers; charging systems; delinquent notices, fines; inter-library loans. One hour.

5. Typewriting. Two hours.

6. Library Administration. Accounts. Statistics of readers and reading, care of supplies, etc. One hour.

7. Library Administration. Care and preservation of books. Book-binding and repair or restoration. Injuries from heat, gas, damp, insects, thefts, mutilations, etc. Treatment of periodicals and pamphlets. One hour.

8. Library Administration. Rules, access to shelves, library advertising, librarian's reports, relations to trustees or library authorities; buildings, furniture and fittings, light, heat, and ventilation; selection of assistants, salaries, leave, hours, etc. One hour.

9. Advanced Cataloguing. Preparation of a dictionary catalogue on the most advanced plan. Finding lists and accession lists. Printed catalogues. Cataloguing rarities. Government publications. Two hours.

10. Bibliography. Universal, national, trade, and special bibliographies. Preparation of bibliographies, and finding lists. Methods of citation and abbreviation. History of printing, paper, publishers, etc. Two hours.

11. History of Libraries. American, foreign. Copyright, in relation to libraries and literature. Qualifications of a librarian. One hour.

12. Reference Work. Helps for reader and student. Reader's guides. Note-taking and indexing. Preparation of abstracts. Reading methods. Two hours.

13. The Library and the Public. Organization of libraries. Library commissions and legislation. Traveling libraries. Li-



brary associations. Uses of the library to the university, the common school, the citizen, the official. One hour.

14. Preparation of Thesis. Each student is expected to present a thesis which will show the ability to do independent work. The member of the faculty having the student under his instruction in the branch on which the thesis is written will render all needed assistance.

In each of the subjects in the course extra time may be required for the practice necessary to put the facts taught to use.

## MATHEMATICS.

PROFESSOR HODGKINS, Head of Department.

MR. HODGKINS, Instructor.

(A.) Elementary Algebra: Three hours. Bowser's College Algebra.

(B.) Plane Geometry: Three hours. Gore's Plane and Solid Geometry.

1. Algebra: Three hours. Bowser's College Algebra.

2. Geometry: Two hours. Gore's Plane and Solid Geometry.

3. Trigonometry: Three hours, first term. Crockett's Plane and Spherical Trigonometry.

4. Analytic Geometry: Three hours, second term. Bowser's Analytic Geometry.

5. Calculus: Two hours. Bowser's Calculus.

6. Differential Equations: Two hours. Johnson's Differential Equations.

7. Least Squares: Two hours, ten weeks.

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.

8. Determinants: Two hours, ten weeks. Weld's Determinants; Hanus' Determinants.

9. Quaternions: Two hours, ten weeks. Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: Two hours, ten weeks.

11. Theory of Equations: Two hours, ten weeks.

12. History of Mathematics.

Courses *A* and *B* are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 will have studied plane geometry, and through quadratic equations in algebra; but as a thorough and ready knowledge of these elements is essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, they serve as preparation for the advanced courses described under the School of Graduate Studies. Usually only three of these six courses will be given each year.

## MECHANICAL ENGINEERING.

PROFESSOR AYRES, Head of Department.

1. Machine Design. Proportioning of the following machine parts: Fastenings, toothed and belt gearing, rotating and sliding pieces, bearings, and connecting rods.

Text-book: Klein.

Four hours, second term, Sophomore year.

Four hours, first term, Junior year.

2. Kinematics. Nature of mechanisms. Diagrams of the changes of position and speed in mechanisms.

Text-book: Kennedy.

Three hours, second term, Sophomore year.

Two hours, first term, Junior year.

3. Boilers. Location, construction, strength, and wear and tear of boilers.

Text-book: Peabody and Miller.

Two hours, second term, Sophomore year.

4. Thermodynamics. The steam-engine and other heat engines.

Text-book : Ewing.

Three hours, Junior year.

5. Mechanical Technology. Shop visits. Examination of processes and appliances pertaining to pattern-making, molding, casting, forging, and finishing.

Four hours, Junior year.

6. Mechanics of Machinery. Graphical statics of mechanisms.

Text-book : Hermann-Smith.

Three hours, second term, Junior year.

7. The Mechanical Engineering of Power Plants.

Text-book : Hutton.

Three hours, second term, Junior year.

8. Machine Design. Theory of and calculations for a high-speed steam-engine.

Text-book : Klein.

Four hours, Senior year.

9. Mechanics of the Machinery of Transmission.

Text-book : Weisbach-Hermann.

Four hours, Senior year.

10. Measurement of Power. Practical work in indicating steam-engines, determining the evaporative efficiency of boilers, &c.

Five hours, Senior year.

## METEOROLOGY AND ITS APPLICATIONS.

PROFESSOR ABBE, Head of Department.

ASSISTANT PROFESSOR MARVIN.

The courses in Meteorology in the Scientific School and the School of Graduate Studies are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself.

Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the lectures, the professor devotes one hour a week to a "quiz" class, in which, by questions and answers, he seeks to remove any difficulties that remain.

1. **Observational Meteorology.** The student will keep a personal diary of the meteorological conditions. The lectures will relate to instruments and methods of observing, computing, and graphic presentation of results. Two hours.

2. **General Climatology.** The lectures will cover all the elements of climate and some of the physical processes explaining the phenomena, the theory of probabilities so far as it is applied to climatology and the determination of the coefficients or other factors that represent climatological peculiarities. Two hours.

3. **Special subjects in climatology and meteorology and the relation of climate to geology, vegetation, anthropology, hygiene, and human industries.** Two hours.

## PHILOSOPHY.

PROFESSOR KIRBY, Head of Department.

1. **Psychology.** The intention of the course is to explain to beginners the meaning and interest of philosophical study, and to treat systematically the principles and elements of psychology. Some attention is paid to the ethical and pedagogical application of psychology. Baldwin's *Elements of Psychology* is used as a basis, to be supplemented by lectures and discussion, with references to other books. Two hours.

2. **Logic.** Lectures introductory to philosophical study; principles of logic; formal logic. Jevon's *Lessons in Logic* is used. Two hours.

3. **Ethics.** The theory of ethics treated constructively, with some attention given to the problems of practical ethics. Lectures, private reading, discussion, and theses. Two hours.

**PHYSICS AND ELECTRICAL ENGINEERING.**

**PROFESSOR WOLFF, Head of Department.**

**DR. FIREMAN, Instructor in Physical Chemistry.**

**MR. EDMUNDS, Laboratory Assistant.**

1. General Physics. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Three hours.

2. Elementary Mathematical Theory of Electricity and Magnetism. Text-book: S. P. Thompson's Elementary Lessons in Electricity and Magnetism. Three hours, first term.

3. Dynamo-electrical Machinery. Text-book: Hawkins and Wallis, The Dynamo. Three hours, second term.

4. Advanced Mathematical Theory of Electricity and Magnetism. Text-book: Gerard's Electricity and Magnetism (translated by Duncan). Three hours, first term.

5. Dynamo-electric Machinery. Advanced course. Text-books: S. P. Thompson's Dynamo-electric Machinery and Poly-phase Currents; Jackson's Alternating Currents. Three hours, second term.

6. Technical Applications of Electricity.

A course covering the most important applications of electricity: Telephony, Telegraphy, Lighting, Power Transmission, Electro-metallurgy, Electro-chemistry, etc., with special attention to the latest methods adopted. Two hours.

Arrangements will be made for special lectures on the above topics by members of the examining corps of the United States Patent Office, and by others in close touch with the most recent developments.

7. Advanced Physics. A mathematical course intended to acquaint the student with the methods of mathematical physics, and as an introduction to the more advanced courses in the School of Graduate Studies. Three hours, second term.

8. Physical Chemistry. An elementary course with special reference to the modern theories of solutions and electro-chemistry. Two hours.

9. Elementary Laboratory Work. Fundamental measurements and experiments in all branches of Physics. Three hours, both terms, or five hours, second term.

10. General Electrical Measurements. A laboratory course for Juniors in the Electrical Engineering Course. Six hours. Text-book: Carhart and Patterson's Electrical Measurements.

11. Advanced Laboratory Work for Juniors. This includes such experiments as those described in the laboratory manuals of Glazebrook and Show, Stewart and Gee, and Nichols. Six hours.

12. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Dynamo and motor-testing, determinations of characteristics, etc. Six hours.

13. Advanced Laboratory Work for Seniors in the course in Physics and Mathematics.

14. Inspection of Electric Light and Power Plants, etc. In and around Washington and Baltimore are a number of modern electric-lighting and street-railway plants, telephone exchanges, telegraph operating-rooms, etc., which afford students of electrical engineering an excellent opportunity to familiarize themselves with nearly all types of electrical apparatus in use. The visits are followed by a class discussion.

Occasional meetings are held at which papers on special subjects are read by advanced students.

For a description of the apparatus available for tests in the electrical engineering laboratory, see page 92.

## POLITICS AND ECONOMICS.

PROFESSOR CRAVEN, Head of Department.

DR. WRIGHT, Lecturer on Statistics.

MR. McNABB, Instructor in Business Law.

### *Business Law.*

1. Practical Business, Commercial and Banking Law:

(1.) Business Law in general:

Principles on which it rests.

- (2.) The Law of Contracts :
  - a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.
  - b. Commercial Paper :  
Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.
- (3.) Descent and Distribution of Property :  
Duties of Executors, Administrators, Trustees, Guardians, etc.
- (4.) Business Forms and Practice. Two hours.

*Economic Development.*

- 2. The History of Economic Growth among Ancient, Mediæval, and Modern Peoples down to A. D. 1500. Two hours, 1901-1902.
- 3. Modern Industrial and Commercial Changes and Legislation since A. D. 1500. Two hours, 1900-1901.

*Politics and Administration.*

- 4. Historical and Practical Politics—Rise and growth of general, State, and municipal government in the United States. Two hours, 1901-1902.
- 5. The State; Theories and Forms of Government, Ancient and Modern. Two hours, 1900-1901.

*Statistics.*

- 6. Comparative: A numerical study of social relations, with particular regard to the population, industries, and commerce of the United States and other leading nations. Two hours, 1901-1902.

*History and Science of Finance.*

- 7. Money, Coinage, Credit, and Banking; Government Paper, U. S. Moneys. Two hours, 1901-1902.
- 8. Public Expenditure, Public Revenue, Taxation, Financial Administration, Budgets and Audits. Two hours, 1900-1901.

*Political Economy.*

9. An Historical Introduction to the Study of Political Economy. Two hours, 1901-1902.
10. The Principles of Economics. Two hours, 1900-1901.

*Sociology.*

11. The Principles of Sociology. Two hours, 1900-1901.
12. A Study of Individualism, Socialism, and of the Practical Social Problems of State and Municipal Administration in Respect to Sanitation, Charities, Crime, etc. Two hours, 1901-1902.

## ROMANCE LANGUAGES.

PROFESSOR RAMSEY, Head of Department.

MR. CLARK, Instructor in French.

MR. MAILLET, Assistant in French.

MR. FAULKNER, Assistant in Spanish.

MR. GARRETA, Assistant in Spanish.

*French.*

1. As the aim of the instruction during the first year is to give the students a working knowledge of the language, their efforts are centered upon its grammatical construction and the acquisition of a vocabulary. By the end of the year the class is expected to have mastered the essentials of the grammar, and to be able to read easy French prose and to understand it when spoken. To this end the French language is used as far as practicable as a medium of instruction. Two hours.

Text books: Chardenal's French Course; Bercy, *La Langue Française* (part 1); Roulier's *First Book of French Composition*; Verne, *Expédition de la Jeune-Hardie*; Berthet, *Le Pacte de Famine*.

2. Continuation of the study of grammatical construction, with exercises in composition and conversation. Occasional lectures in French on topics of general interest. Oral drill in



sight rendering of English into French. Study of synonyms and idioms. Two hours.

Text-books: Whitney's Practical French Grammar; Hennequin's French Idioms; Sandeau, Mlle. de la Seiglière; Sand, La Mare au Diable; Rostand, Cyrano de Bergerac.

3. General introduction to the study of French Literature. Literary composition and the principles of rhetoric. Lectures on the development of the language and upon prominent periods of the literature. Two hours.

Text-book: René Doumic, Histoire de la Littérature Française. The texts read, which must be representative of at least three distinct periods, are selected by the class. In addition to the amount of reading in class-hours, the students are required to examine and report upon twenty literary masterpieces, dating from Villon to the present time. (These works are furnished from the library of the Department.)

4. Advanced prose composition and verbal criticism. Two hours.

Text-books: Roulier's Second Book of French Composition; Méras, Syntaxe Pratique; Muzzarelli, Antonymes de la Langue Française; Crouslé, Grammaire Française (Cours Supérieur); Legouvé, La Lecture en Action.

5. French Conversation for beginners. (Mr. Maillet.) Two hours.

A four months' course, given twice yearly, beginning October 1 and February 1, intended for members of classes 1 and 2 who desire more instruction in conversation than can be given in the required work of those years.

6. French Conversation for advanced students. (Mr. Maillet.) Two hours.

### *Spanish.*

The instruction in Spanish in this department has always been conducted with especial reference to the constantly increasing intercourse between the United States and the Spanish-American Republics, as much attention as possible being given to the customs, usages, resources, and products of those coun-

tries. In view of recent political events, the necessity becomes still more obvious for accentuating the New World features of the Castilian tongue.

7. The class is drilled in pronunciation, in hearing the spoken language, in writing from dictation, and in oral and written translation into Spanish of carefully graded exercises. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

Text-books: Ramsey's Elementary Spanish Grammar and Elementary Spanish Reader.

8. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms. History and development of the Castilian language and literature. Exercises in literary composition. Reading from standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's Text-book of Modern Spanish and Spanish Prose Composition; and texts, to be selected as required.

9. Advanced prose composition and verbal criticism. Two hours.

Text-books: Ferreyra, Lecciones de idioma castellano; Arpa, Ejercicios prácticos; Valbuena, Ripios académicos and Ripios ultramarinos; Orellana, Cizaña del lenguaje.

10. Spanish conversation for beginners—similar to course 5 in French. (Mr. Garreta.) Two hours.

### *Italian.*

11. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered the class is led at once to the reading of the easier prose authors, ending with the "Alberto" of De Amicis. Two hours.

Text-books: Lemmi's Italian Grammar; Comba, La Lingua Italiana.

12. Further study of the grammatical construction and the principles of syntax and style. History and development of

the Tuscan language and literature. Selections from Dante Alighieri, Petrarca, Boccaccio, Ariosto, Tasso, Goldoni, Pellico, and Manzoni. Two hours.

Text books: Sauer's Italian Grammar; Montague's Modern Italian Readings.

## ZOÖLOGY.

PROFESSOR BARTSCH, Head of Department.

1. Zoölogy. This includes lectures and laboratory work. The lectures in their scope cover all the branches of the animal kingdom, from the unicellular organisms to mammals, and correlated with these lectures is the study and dissection of type specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution.

Lecture, one hour.

Laboratory, two hours.

2. Zoölogy. Continuation of the work mapped out in course 1, special attention being given to the comparative morphology and histology of animal tissues.

Lecture, one hour.

Laboratory, two hours.

3. Ornithology. In this course special attention is directed to the study of the birds of the District of Columbia. Frequent field excursions are made to familiarize the student with the haunts and habits of these forms.

Lecture, one hour.

Laboratory, two hours.

Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor.

The collections of the U. S. National Museum and the Smithsonian Institution are consulted in connection with all these courses.

## MECHANICAL AND ELECTRICAL ENGINEERING LABORATORY.

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches. The Mechanical Engineering Department is also provided with a valuable collection of machine parts, illustrating the best modern practice, such as shaft-hangers, pedestals, valves, jacks, friction clutches, etc.

It is expected that arrangements will be perfected during the present session to provide the necessary additional testing machines and instruments to give a laboratory course in engineering practice. The lighting and heating plant now installed in University Hall forms an excellent basis for such work.

A 25 K. W. direct current Westinghouse dynamo, directly connected to a Westinghouse gas engine of the latest type, has been installed. The dynamo was specially constructed to adapt it to experimental requirements, generating both direct and polyphased alternating currents. The surplus power of the Westinghouse gas engine will be utilized in driving smaller dynamos of various types, for testing purposes.

The engine is one of the latest and most improved types of gas engines, being a two-cylinder single-acting engine, giving an explosion every revolution, and an exceptionally close regulation. Provision is made for testing the efficiency of each machine independently, or the combined unit under a great variety of conditions.

In addition to the above, an experimental electrolytic refining plant has been installed, current for which is furnished by a Crocker & Wheeler motor dynamo, giving 150 amperes at 6 volts. Special investigations in electrometallurgy are in contemplation.

The laboratory is being equipped with the necessary measuring apparatus, direct and alternating current ammeters and voltmeters, galvanometers, standard resistances, standard cells, etc.

## UNIVERSITY LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m. The reading-room is supplied with the most important magazines and reviews.

## UNIVERSITY LECTURES.

Students of the Corcoran Scientific School are admitted without further fee to the University Lecturers ; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

## ORATORY.

Registered students in the Corcoran Scientific School will be admitted to the special course in Oratory in the Schools of Law on the recommendation of the Dean of the Corcoran Scientific School and with the approval of the Dean of the School of Comparative Jurisprudence and Diplomacy. A special fee of fifteen dollars is charged for this course.

## EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees :

“ Examinations for degrees in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported by the Faculty of each to the President of the Faculties at least two weeks before the date of Commencement.”

“ Examinations for prizes in each of the said departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of Commencement.”

“ No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer.”

Professors and instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.

## REQUIREMENTS FOR DEGREES.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The Degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered, or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

## SCHOLARSHIPS.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Corcoran Scientific School of The Columbian University, at the discretion of the Dean of said School."

Edward T. Fristoe Scholarship has been founded in memory of the first Dean and Professor of Chemistry of the Corcoran Scientific School. The income from this fund is not yet available.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, consist of five scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholar-

ship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

All awards of scholarships are made for one year only, but may be renewed. Applications for Scholarships should be filed with the Dean not later than September 15th.

## PRIZES.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

**SCHMIDT PRIZE.**—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a pocket case of the finest Drawing Instruments. All students in full standing in the second year taking a full course in one of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments; Descriptive Geometry plates to count seventy-five (75) per centum, and twenty-five (25) per centum to be evenly distributed between the yearly examinations in Descriptive Geometry and the second year mathematical studies taken in common by all four departments.

**AMATEIS MEDAL.**—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

**MUTH PRIZE.**—Geo. F. Muth & Co. offer a set of drawing instruments to the student who makes the highest record in the class in Mechanical Drawing.

*Prize Awards, 1900.*

Willie E. Fitch Prize.....Matthew Smith Hopkins.  
 Schmidt Prize.....Louis E. Giles.  
 Veerhoff Prize.....Irene Mabel Pistorio.

## ANNUAL TUITION FEES.

For courses not including laboratory work :

Courses in one Department.....	\$40 00
Courses in two Departments.....	75 00
Courses in three or more Departments.....	100 00

Laboratory courses :

Course 2 or 3 in Chemical Laboratory, including cost of material and apparatus.....	50 00
Laboratory Course in Chemistry (except 2 or 3).....	100 00
For chemicals used.....	25 00
Deposits (returnable) for breakage .....	25 00
Laboratory Courses in Assaying of Ores and Bullion..	40 00
For materials used.....	20 00
Elementary Course in Physical Laboratory.....	20 00
Advanced Course in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy (for the year).....	60 00
For materials used.....	10 00
Material fee, Botany or Zoölogy.....	2 00

ANNUAL FEES FOR FULL COURSES OF STUDY  
 LEADING TO THE DEGREE OF BACHELOR OF  
 SCIENCE.

Freshman year (common to all courses) .....	\$100 00
Sophomore year, Course 1 (laboratory fees extra) ....	100 00
Junior       "       "       1       "       "       "       .....	100 00
Senior       "       "       1       "       "       "       .....	100 00
Sophomore   "       "       2 .....	100 00
Junior       "       "       2 .....	100 00
Senior       "       "       2 .....	100 00



Sophomore year, Course	3	\$120 00
Junior	3	130 00
Senior	3	130 00
Sophomore	4	115 00
Junior	4	100 00
Senior	4	100 00
Sophomore	5	130 00
Junior	5 (deposit, \$10.00)	150 00
Senior	5 (deposit, \$10.00)	150 00
Sophomore	6	130 00
Junior	6 (deposit, \$10.00)	150 00
Senior	6 (deposit, \$10.00)	150 00
Sophomore	7	100 00
Junior	7	100 00
Senior	7	100 00
Sophomore	8	130 00
Junior	8	120 00
Senior	8	130 00
Sophomore	9	105 00
Junior	9 (deposit, \$10.00)	150 00
Senior	9	100 00
Sophomore	10	100 00
Junior	10	100 00
Senior	10	100 00
Sophomore	11	100 00
Junior	11	100 00
Senior	11	100 00
Sophomore	12	100 00
Junior	12	100 00
Senior	12	100 00
Sophomore	13	100 00
Junior	13	100 00
Senior	13	130 00
Sophomore	14	130 00
Junior	14	130 00
Senior	14	130 00
Diploma fee (final)		10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will

be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, in quarterly installments, unless special arrangement be made with the Treasurer to suit the convenience of the student. *No deduction on account of absence will be made for less time than one quarter of a scholastic year.*

A student desiring to make any change in his course of study or to drop any study should inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.

### ROOMS AND BOARD.

During the year 1900-1901 desirable rooms, convenient to the University buildings, have been offered at prices ranging from \$5 to \$10 per month, and good board has been offered from \$15 to \$20 per month. A list of persons offering rooms and board can be obtained from the Registrar of the University.

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For further information regarding the Corcoran Scientific School, application may be made to

HOWARD L. HODGKINS, *Dean.*

## STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

### *Candidates for Degrees.*

Name.	State.	Address.
Adams, Arthur B.....	Md....	Treasury Department.
Alden, John W.....	D. C...	1308 S Street.
Allen, Nila Francis.. . . .	Ind....	509 4th Street.
Allison, Isaac.....	D. C...	Kendall Green.
Ancona, John F. ....	D. C...	1008 22d Street.
Anderson, Albert.....	Wis....	1005 8th Street.
Askew, Mary D.....	Mich..	1205 6th Street.
Backe, A. Wilburt.....	D. C...	1225 11th Street.
Baker, Edward S.....	Va ...	210 N. Washington St., Alexandria, Va.
Ball, Henry Bryant.....	Ga ....	Dep't of Labor.
Barbour, Ernest.....	Kans..	619 14th Street.
Barr, James .....	Wis ...	604 9th Street.
Bartley, Thomas A.....	Md ...	1206 T Street.
Baum, Henry E.....	D. C...	712 B Street, S. W.
Beale, Carroll. ....	D. C...	3132 P Street.
Beck, Henry L.....	Texas..	Census Office.
Becker, John R. ....	Ill....	601 M Street.
Belisle, George E.....	Mass ..	1111 11th Street.
Bowie, William Love.....	N. C...	929 R. I. Avenue.
Brandenburg, Nellie K.....	Pa.....	915 French Street.
Brearley, James A.....	D. C...	306 10th Street, S. E.
Brown, Clifford Hudson. ....	D. C...	Omaha & N. H. Aves.
Brown, Lewis H.....	N. Y...	1535 T Street.
Bunn, Alexander Moss .....	N. C...	1104 12th Street.
Burrows, Alvin Tod. ....	Iowa ..	1517 O Street.
Calver, Arthur W.....	D. C...	1721 P Street.
Campbell, Roy.....	Mont..	1601 31st Street.
Chandler, Charles Harvey.....	Kans..	230 E Street, N. E.
Church, Herbert A.....	D. C...	626 N. C. Ave., S. E.
Cleary, J. D.....	D. C...	612 22d Street.
Cockrell, Francis M., Jr.....	Mo....	1518 R Street.

Name.	State.	Address.
Concklin, Arthur.....	D. C...	1132 25th Street.
Coope, Harry.....	Ohio...	706 11th Street.
Cooper, J. Herschel.....	Ohio...	457 Florida Avenue.
Craiger, Sherman Montrose....	Md....	1327 N Street.
Dean, Florence M.....	N. Y...	150 A Street, N. E.
Depue, Raymond .....	D. C...	1130 6th Street.
Didden, George A.....	D. C...	1418 Binney Street.
Dieterich, Albert E.....	D. C...	1209 E. Capitol St.
Dodge, Moncena Myles .....	Maine..	1318 L Street.
Dodge, Victor L.....	Iowa...	421 6th St.
Doyle, Louis I.....	Pa....	1902 3d Street.
Duke, Emma.. .....	D. C...	807 18th Street.
Dunkerley, William.....	D. C...	1713 15th Street.
Elliot, William P.....	D. C...	324 4th Street.
Ellis, Harry L.....	Ind....	122 C Street, S. E.
Fairbanks, Clair W.....	Minn..	3007 15th Street.
Faustman, William F.....	N. Y...	1516 S Street.
Fleming, Thomas, Jr.....	Va....	1763 Madison Street.
Foley, Thomas Madden.....	Wash..	1922 H Street.
Ford, Ella May.....	Va....	47 R Street.
Fort, Sewell Thomas.....	D. C...	447 Harrison Street, Anacostia, D. C.
Fuller, Jerome M.....	N. C...	13 1st Street, N. E.
Gates, Otis H.....	Fla....	512 E. Capitol Street.
Georgii, Max .....	D. C...	606 F Street.
Getsinger, Buist C.....	S. C...	927 New York Avenue.
Giles, Louis Edward. ....	Mich..	1524 U Street.
Godoy, José Francisco, Jr....	Mexico	1700 15th Street.
Gordon, John Blake.....	D. C...	6 Cooke Place.
Graves, Sheldon H.....	D. C...	1221 K Street.
Gray, Charles H.....	Nebr...	712 12th Street, N. E.
Gwinn, Thomas R.....	Md....	1225 Conn. Avenue.
Hardester, David.. ....	D. C...	529 12th Street, S. E.
Harley, George Foster.....	Ga ....	1409 R. I. Avenue.
Hastings, John Emery.....	N. Y...	Patent Office.
Hicks, James S.....	Pa....	606 F Street.
Hillyer, Charles Sherman.....	Fla....	1363 Whitney Avenue.
Hoeke, Henry William.....	D. C...	116 7th Street, S. E.
Hughes, Henry Ellis.....	D. C...	315 B Street, S. E.
Jackson, Herbert C .....	D. C...	712 18th Street.

Name.	State.	Address.
Keeler, Cora May.....	N. Y...	18 I Street, N. E.
Kemp, Silas V.....	Md....	15 3rd Street. N. E.
Kleberg, A. L....	Texas..	214 N. Capitol Street.
Lake, R. Howard.....	Va	701 C Street, S. W.
Law, Leroy Mahler.....	D. C...	310 9th Street, N. E.
Lowe, Henry F.....	Va ....	1117 I Street.
Manning, Christian A.....	Pa.....	18 2d Street, N. E.
Marsh, Earl G .....	Ohio...	628 E Street, N. E.
Marshall, M. Edelweiss.....	D. C...	118 Md. Ave., N. E.
Martin, Charles Buckner.....	Texas..	721 19th Street.
Martin, Frederick Oscar .....	Mont..	34 E Street.
Mattingly, Wallace Edward....	D. C...	708 N. C. Ave., S. E.
Maupin, John.....	Va ....	320 A Street, S. E.
McCrary, J. A.....	S. C...	924 Mass. Avenue.
McIntyre, Otis L.....	D. C...	318 C Street.
Medford, P. E.....	D. C...	1631 3d Street.
Moore, William B.....	D. C...	1 Grant Place.
Morgan, Elonzo T.....	W. Va.	4421 Kansas Avenue.
Morgan, John D.....	Ohio ..	1338 Yale Street.
Morton, Brown.....	Tenn..	810 12th Street.
Moss, William B.....	D. C...	944 New York Ave.
Mueden, George Frederic.....	D. C...	437 M Street.
Newberne, Dr. R. E. L.....	D. C...	1224 O Street.
Noyes, Edward R.....	D. C...	500 Md. Ave., S. W.
Orr, Walter T.....	Ind....	421 4th Street.
Pack, Samuel Bernard.....	Pa ....	1218 H Street.
Pennwitt, Eunice Vida.....	Ill.....	Dep't of Agriculture.
Peterson, Martin D. E.....	Ill.....	923 L Street.
Pierce, Charles H.....	Tenn..	56 P Street.
Pierson, Will T., Jr.....	Fla....	315 5th Street, S. E.
Pistorio, Irene Mabel.....	D. C...	626 B Street, S. W.
Pittman, Willis W.....	D. C...	2138 F Street.
Pollock, Andrew Gray.....	Va ....	2007 I Street.
Pugh, Ronald W.....	Ky....	1400 K Street.
Quinn, Peter H.....	Cal....	1226 12th Street.
Reat, Samuel C.....	Ill.....	1318 L Street.
Rector, George Virgil.....	Va ....	515 6th Street.
Reed, John Defrees.....	Cal....	1216 S Street.
Reed, Theodore Warwick.....	Va ....	2107 H Street.
Regan, Ralston B.....	Miss...	1617 8th Street.

Name.	State.	Address.
Ricketts, Murray C.....	D. C...	129 Md. Ave., N. E.
Rippey, Charles Wilson.....	N. Y...	231 12th Street, N. E.
Rockwood, John G.....	D. C...	28 2d Street, S. E.
Saegmuller, John L.....	Va....	134 Md. Ave., S. W.
Sanborn, Jack B.....	D. C...	1359 Yale Street.
Schooley, Charles H.....	Colo...	943 R Street.
Seibert, John J.....	Iowa..	1830 9th Street.
Seltzer, Charles W.....	Pa....	445 5th Street, N. E.
Sensner, George H.....	D. C...	2936 15th Street.
Sheiry, Dillon.....	D. C...	132 F Street, N. E.
Shinn, John Brognard, Jr.....	N. C...	1751 Madison Street.
Shreve, Prentiss Albert.....	Va....	129 Carroll St., S. E.
Smith, Edward S.....	Ill.....	1521 I Street.
Smith, Roger Green.....	D. C...	314 A Street, N. E.
Snelling, Walter O.....	Mass...	1212 L Street.
Snider, Murray French.....	Ohio..	Treasury Department.
Stabler, Harold Brooke.....	Ind....	1321 G Street.
Stansbury, Harry O.....	Texas..	1210 6th Street.
Straub, Theodore G.....	Ind....	139 Carroll St., S. E.
Street, Claude W.....	Minn...	Census Office.
Summy, W. Frank... ..	D. C...	1228 S Street.
Swett, Otis D.... ..	Ill.....	1334 G Street.
Swygert, G. H.....	S. C...	924 Mass. Avenue.
Thom, Will C.....	D. C...	702 N. C. Ave., S. E.
Thompson, Edward C.....	Iowa...	1641 13th Street.
Thompson, John Ambrose.....	D. C...	1720 H Street.
Tolson, Bernard Reid.. ..	D. C...	535 4th Street, S. E.
Tyler, Frank E.....	Miss...	Geological Survey.
Van Leer, Carlos C.....	Tenn..	1007 13th Street.
Vivian, John Taylor.....	Pa.....	420 C Street, S. E.
Wallace, Saida A.....	D. C...	1109 N. H. Avenue.
Walters, Harry H.....	D. C...	1920 15th Street.
Warner, George L.....	Ohio...	2926 15th Street.
Watts, George A.....	D. C...	412 2d Street.
Watts, John Ogden.....	D. C...	412 2d Street.
White, Harry B.....	D. C...	409 9th St., S. W.
Whitney, Carl Everett.....	N. Y...	736 3d Street.
Wight, Frank C.....	Maine.	417 Q Street.
Woodward, Mark R.....	D. C...	125 N. Y. Avenue.
Yount, Frederick Horn.....	Pa....	20 6th Street, S. E.

*Special Students.*

Name.	State.	Address.
Albert, Anne Adelaide .....	Pa ....	3417 Holmead Ave.
Averill, Margaret.....	Wis....	121 A Street, N. E.
Barber, Victor Sylvester.....	S. D...	703 E. Capitol Street.
Barndollar, Burton H.....	Ill.....	1510 R Street.
Barnes, Mary A.....	N. J...	216 Seaton St., N. E.
Barton, Harry.....	Pa ....	1233 Mass. Avenue.
Bland, Ewing C.....	Mo....	229 Mass. Ave., N. E.
Bliss, Grace May.....	Ill.....	4 B Street, N. E.
Blohme, J. Harry.....	Cal....	Treasury Department.
Bourquin, Katharine.....	Pa ....	Chevy Chase, Md.
Bowen, Ellsworth U. ....	D. C...	1004 9th St., N. E.
Boyd, William Alexander ....	N. C...	614 E Street.
Breen, Mary C.....	D. C...	1357 U Street.
Brewer, Elin G .....	Md ....	The Lincoln.
Brockett, Paul.....	N. C...	Smithsonian Inst'n.
Brooke, Lloyd A.....	D. C...	123 6th Street, N. E.
Buckley, J. A.....	D. C...	Washington, D. C.
Burdiner, Elbert F.....	D. C...	620 Md. Ave., N. E.
Burnside, R. Baird.....	N. Y...	809 12th Street.
Burton, Hiram Ralph.....	D. C...	2147 P Street.
Burt, Adah L. ....	Minn..	610 D Street, S. W.
Chauncey, E. L.....	D. C...	1703 N. J. Avenue.
Cheney, Harriet M.....	Mass...	1436 Kenesaw Ave.
Clark, Bertha W.....	N. Y...	229 R Street, N. E.
Clark, Emily A.....	N. Y...	229 R Street, N. E.
Coffin, Mary B.....	D. C...	229 Mass. Ave., N. E.
Cole, Mary B.....	D. C...	The Lafayette.
Colestock, Harry Ludwig.....	Pa.....	937 Mass. Ave.
Collings, Clarice Alberta.....	Ill.....	637 E. Capitol Street.
Collins, Harry E.....	D. C...	44 C Street, N. E.
Cooney, Ellen Jeanette.....	D. C...	500 T Street.
Corcoran, Richard P.....	Ill.....	816 13th Street.
Cotton, W. E.....	Iowa...	2024 32d Street.
Cross, Anne G.....	D. C...	1412 15th Street.
Dann, Wallace.....	D. C...	1211 Q Street.
Davis, Mary Brewer.....	Va.....	48 M Street.
Dean, Edward Clarence.....	D. C...	Oaklawn, Wash. Hts.

Name.	State.	Address.
De Maine, John U.....	N. Y...	1001 N. H. Ave.
Denny, Susie W.....	Va.....	1524 U Street.
Durand, Albert C.....	Ohio ..	413 P Street.
Emory, Elizabeth....	D. C...	2123 F Street.
Etheridge, Florence.....	Mass...	110 4th Street, S. E.
Faison, Elinor H.....	N. C...	1611 Riggs Place.
Farley, Alfred .....	N. Y...	409 15th Street.
Fenton, Georgiana Chalfant....	Ind....	1709 Corcoran Street.
Fisher, Albert E.....	D. C...	629 N. J. Avenue.
Fletcher, Frank D. ....	N. Y...	1324 Q Street.
Flournoy, B. C.....	D. C...	Treasury Department.
Flournoy, Park Poindexter, Jr.	Md....	1129 14th Street.
Folkes, Lily.....	Miss...	1302 R. I. Avenue.
Fravel, F. Russell.....	Mass ..	800 11th Street.
Fuller, Charles Franklin.....	D. C...	612 L Street, N. E.
Gaines, Ada S....	D. C...	Brookland.
Gaines, Mary B.....	D. C...	Brookland.
Garnier, Madeleine A.....	Pa.....	1829 Oregon Avenue.
Garrett, Lucile V.....	Iowa...	1305 H Street.
Gibson, Irene.....	Mo....	1320 Corcoran Street.
Gordon, Erskine... ..	D. C...	6 Cooke Place.
Gould, Ezra .....	D. C...	1745 S Street.
Griesbauer, John A., Jr.....	D. C...	435 9th Street.
Griggs, Alice .....	N. Y..	939 R. I. Avenue.
Haas, Alwine.....	Iowa ..	1029 Connecticut Ave.
Hager, Frank L.....	Ohio...	513 4th Street.
Hance, Eleanor Wilson.....	Va.....	Pension Office.
Haney, L. T. ....	Va.....	St. Elmo, Va.
Harmon, H. F. ....	Texas..	818 9th Street, N. E.
Hawkins, Charles.....	D. C...	4th St. & Va. Ave., S. E.
Heine, William Anton.....	D. C...	Brightwood Avenue.
Herriott, Hallie Irene. ....	D. C...	1842 15th Street.
Hummer, Elizabeth.....	D. C...	714 A Street, N. E.
Hunter, Maud G.....	D. C...	1519 35th Street.
Johnson, Charles A. ....	D. C...	2011 S Street.
Johnson, Inez M.....	D. C...	2011 S Street.
Johnson, J. Blakesley.....	D. C...	805 H Street.
Johnson, Kate P.....	Ind....	1414 K Street.
Jones, James L.....	D. C...	518 G Street, S. E.
Jullien, Caroline M.....	D. C...	Brookland.



Name.	State.	Address.
Kavanaugh, Annie.....	Wis....	1925 I Street.
Kinslow, Leroy F.....	D. C...	1829 K Street.
Klakring, Alfred.....	D. C...	1137 N. J. Avenue.
Kneessi, W. Daniel.....	D. C...	1241 8th Street.
Lamson-Scribner, A. ....	Maine.	1502 17th Street.
Laskey, Julia Hardey.....	D. C...	1450 Q Street.
Lawton, Edwin.....	D. C...	Falls Church, Va.
Levering, Jennie E.....	Ohio...	1435 Chapin Street.
Lewin, S. M.....	Md....	311 E. Capitol Street.
Lillis, Minnie C.....	Ohio...	201 N. Capitol Street.
Little, Agnes I.....	D. C...	710 A Street, N. E.
Little, Frederick A.....	Wis....	1620 15th St., N.W.
Lloyd, J. A.....	Ga.....	Southern Railway.
Lyman, Freeland C.....	D. C...	1710 I Street.
MacGonegal, Alfred R....	N. Y...	904 B Street, S.W.
Mair, John William. ....	Mich ..	702 17th Street.
Mallon, Mary E.....	D. C...	1243 Md. Ave., N. E.
Martin, Ruft B.....	Va.....	Gov't Hospital for the Insane.
Mathews, Sally Talbot.....	N. J....	1408 15th Street.
McCollum, Hiram.....	D. C...	1204 G Street.
McCullough, Max.....	D. C...	406 11th Street, N. E.
McKee, Hortense .....	Miss...	The Luzon.
McNally, Lulu.....	D. C...	13 6th Street, N. E.
Meussdorffer, C. H., Jr... ..	Oregon.	213 C Street.
Milam, Mary Winifred.....	N. C...	318 3d Street.
Mitchell, Alice Fraem.....	Md....	916 23d Street.
Mosher, Edith R.....	D. C...	901 24th Street.
Murphy, Fred. V....	Ill.....	Treasury Department.
Neel, Elizabeth Graves... ..	Ga ....	1412 15th Street.
Newcomb, Lucia Lee .....	Mich ..	1607 T Street.
Nixon, Mary S.....	Ky....	635 E. Capitol Street.
Nourse, Agnes.....	D. C...	1302 R. I. Avenue.
Ohm, William O. ....	Md....	Takoma Park.
Orth, Henry, Jr.....	D. C...	1011 L Street.
Ottenberg, Jennie.....	D. C...	1243 7th Street.
Ourand, Charles H.....	Va ....	934 I Street
Overton, Winfield Scott .....	N. Y...	War Department.
Paine, Richard G.....	S. C...	1111 H Street.
Perham, Sidney H.....	D. C...	905 Westminster St.

Name.	State.	Address.
Peters, J. W.....	Miss...	1330 N. Y. Avenue.
Phelps, Mary Winifred.....	Md....	222 A Street, S. E.
Price, Emmet Rinel.....	Va....	2030 I Street.
Priest, A. May .....	Pa....	259 N Street.
Prince, Sue W.....	D. C...	419 Spruce Street.
Rea, Kate G.....	D. C...	7 Dupont Circle.
Redington, Richmond Bicknell.	D. C...	1749 Q Street.
Reinhart, Frederick P.....	Pa....	Room 26, Winder Bldg.
Reynolds, James C.....	Ind....	322 2d Street, S. E.
Rogers, Mittie J. ....	Va....	721 8th Street.
Romeyn, Nina.....	D. C...	714 20th Street.
Russ, A. B.....	D. C...	9 9th Street, S. E.
Sanger, Alice B.....	Ind....	1029 Conn. Avenue.
Schaaake, Josephine J.....	Mass..	1531 I Street.
Searle, Frank W.....	S. D...	405 B Street, N. E.
Sewall, Margaret L.....	Minn..	228 A Street, S. E.
Sewell, Grace A.....	N. Y...	2225 13th Street.
Shaannon, R. S.....	N. Y...	319 5th Street, S. E.
Shibley, James G... ..	Kans..	1330 12th Street.
Siewers, W. L.....	N. C...	1023 Vermont Avenue.
Smith, Marian.....	D. C...	1546 Howard Avenue.
Solyom, Herbert L.....	Md....	Tennallytown, D. C.
Spilman, Emily Alexina.....	Md....	915 L Street.
Stansbury, H. Earl.....	Va....	207 N. Columbus St., Alexandria, Va.
Starratt, A. Wilbur.....	Ky....	1517 O Street.
Sterrett, Douglas B.....	D. C...	Springland, D. C.
Stockbridge, Helen E.....	Va....	Glencarlyn, Va.
Stoek, Faith G.....	D. C...	3336 O Street.
Svensson, J. Alfred.....	D. C...	2017 G Street.
Thatcher, Marian... ..	Mich..	Hotel Stratford.
Tillman, Lloyd M.....	Tenn..	1624 15th Street.
Tilton, Emma E.....	D. C...	220 2d Street, N. E.
Topping, D. LeRoy.....	N. Y...	1913 Penna. Avenue.
Toumey, M. Helen.....	D. C...	2012 13th Street.
Triepel, Emma M. V.....	N. C...	1731 F Street.
Tweedale, Linda M.....	D. C...	1516 Oak Street.
Underwood, Norman.....	D. C...	1407 10th Street.
Valentine, Edson Blaine .....	Mich..	Census Office.
Vorse, Norman T .....	Iowa..	734 5th Street.

Name.	State.	Address.
Warn, Amy Louise.....	Kans..	913 R. I. Avenue.
Weissenborn, Leo Julius.....	Ill.....	Office of Supervising Architect.
Wharton, John J., Jr.....	Va.....	1409 29th Street.
Wheeler, Harrie Thomas.....	D. C...	814 B Street, S. W.
White, Irene.....	N. Y...	601 M Street.
Whitney, Cornelia.....	D. C...	47 D Street, S. E.
Wilmot, G. C.....	D. C...	Washington, D. C.
Wise, Helen D.....	Ky....	617 P Street.
Wolfley, Caroline F.,.....	Ohio...	The Savoy.
de Wollant, Gregory.....	Russia.	1729 21st Street.
Wood, Jessie Porter.....	R. I...	1414 15th Street.
Yeomans, Evelyn L.....	D. C...	917 E. Capitol Street.
Youngs, Warren W.....	D. C...	912 G Street.

Total..... 318

# THE SCHOOL OF GRADUATE STUDIES

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Lecturer on Anthropology.

## BOARD OF DIRECTORS OF UNIVERSITY STUDIES.

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The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The eighth session begins Wednesday, September 25, 1901.

The School is opened each year with a public address by a member of the Faculty.

## DEGREES.

The degrees of Master of Arts (M. A.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the School of Graduate Studies under such regulations as may be established from time to time by the Board of Directors ; but no graduate student is regarded as a candidate for any advanced degree until he has been

admitted to such candidature by the Board of Directors of University Studies. The conditions to be satisfied by candidates will be found on page 133.

## COURSES OF STUDY.

The following courses are offered to students in the School of Graduate Studies. Candidates for the Degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

### ANTHROPOLOGY.

DR. MASON.

Candidates for degrees in this department are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are essential. Students should have a knowledge of anatomy and physiology. They should also have pursued a course in psychology, with especial reference to the study of physiology.

The special studies of the department comprise the following courses :

1. Study of the races of man.
2. The history of culture (*Kulturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.
3. The history of the past as revealed in the study of archæology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Haeckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as texts, with readings in the journals of the Anthropological societies.



## ARCHÆOLOGY: CLASSICAL.

PROFESSOR CARROLL.

The School of Graduate Studies is prepared to furnish instruction in certain branches of Greek and Roman Archæology, making use of the excellent opportunities which Washington affords. The Corcoran Gallery of Art has a large collection of plaster casts of Greek and Roman sculpture. The Halls of the Ancients offer considerable illustrative material for the study of classical architecture and art and of Roman private life, and the National Museum has various collections useful in the study of antiquity.

The following courses of study are offered:

1. Introduction to Classical Archæology, an elementary course in Greek and Roman architecture and sculpture and Greek vases, and the bibliography of archæology.

2. Topography of Athens. Reading and study of Pausanias' Description of Greece, Bk. I, ch. 1-30, together with a course of lectures on the Topography and Monuments of Ancient Athens.

3. History of Greek Sculpture. A systematic study of the various periods of Greek Sculpture, illustrated by photographs, lantern slides, and the casts of the Corcoran Gallery of Art.

4. The Private Life of the Romans. The subject of Roman life will be considered in the light of existing material remains, as reproduced by photographs, engravings, casts, and the Pompeian house in the Halls of the Ancients.

## ARCHITECTURE.

PROFESSOR HORNBLLOWER.

PROFESSOR AMATEIS.

Classical styles; Interior architecture and decoration; Construction of buildings.

The thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

## ASTRONOMY.

PROFESSOR FRISBY.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this department for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads:

1. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method, *Abhandlungen, Erster Band*. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' *Theoria Motûs*. Books of reference, as above.

3. An outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson.

4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen, Zweiter Band und Dritter Band*. Books of reference, as above. The method of the variations of the six elements will be first taught. The other methods of Hansen and of rectangular coordinates will follow if needed.

5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference; Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

6. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*.

## PROFESSOR RICE.

7. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers.

8. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brünnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy (such as Watson's) as are not especially concerned with the determination of orbits.

9. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulæ and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned with the tabular values of functions, for those desiring a special acquaintance with this fundamental and important subject.

10. A reading course in the History of Astronomy. Such works as Grant's History of Physical Astronomy, Clerke's History of Astronomy during the Nineteenth Century, etc., will be used as texts.

## ASTRO-PHYSICS.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

BIBLICAL LITERATURE AND SEMITIC  
LANGUAGES.

## PROFESSOR POLLARD.

Courses in this department are intended (1) for those who wish to specialize in Biblical and Semitic Studies; (2) students

of language, that they may be better furnished with data for the study of comparative philology, phonetic laws, and the philosophy of language; (3) students of ancient history and archæology; (4) students of ethics and theology; (5) those seeking more liberal culture.

1. Studies in the Hebrew Prophets. Lectures on the nature of prophecy; reading in the Hebrew, with historical side lights.

2. Hebrew Poetry—its form and contents. Its national, universal, and Messianic features. Readings in the Psalms.

3. Investigations in Hebrew History and Biblical Archæology. As guide, McCurdy's "History, Prophecy, and the Monuments;" writings of Sayce, Hommel, Bliss, and others.

4. Studies in the Apostolic Age. Reference to Harnack, Ramsay, McGiffert, and others.

5. The Hebrew Language. Syntax and selected readings from the Books of Samuel.

6. The Cognate Semitic Languages. (a) Aramaic, Grammar and readings in the Books of Daniel and Ezra; (b) Arabic, Lansing's Manual and readings from the Quran; (c) Assyrian, Grammar and reading of selected cuneiform texts.

7. New Testament Greek. With consideration of Hebraic influence upon the "Common Dialect," and divergence from classic usage. Selected readings from the New Testament and from the Septuagint.

## BIBLIOGRAPHY AND BIBLIOLOGY.

### PROFESSOR JOHNSTON.

The Professor exercises a general supervision over the bibliographic work done in this department and advises students as to the best methods of work and the accepted methods of presentation of results. Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at The Columbian University.

**BOTANY.****PROFESSOR LAMSON-SCRIBNER.**

1. Advanced systematic study of the various groups and families of plants.
2. Plant histology and special morphology.
3. Plant distribution and economic plants.

**CHEMISTRY.****PROFESSOR MUNROE.**

Courses of graduate study in Chemistry are offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

**PROFESSOR CLARKE.**

Professor Clarke offers to properly equipped students a course of research work in the development of his theory of the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

**PROFESSOR WILEY.**

Professor Wiley directs special researches in Agricultural Chemistry, provided that students properly trained in the elements of that science shall present themselves for advanced work.

**PROFESSOR DE SCHWEINITZ.**

Professor de Schweinitz offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry, the following subjects:

1. A study of the products of the growth of germs, either in the animal body or upon artificial media.
2. The influence of these substances in causing disease and their relation to immunity.
3. The anti-toxins and methods of their preparation.

## ECONOMICS.

### PROFESSOR WRIGHT.

1. Advanced Political Economy. A study of the science and of the theories of Economic Study of Political Progress and of Practical Economic Problems.

### ASSOCIATE PROFESSOR WEST.

2. Public Economy. (a) A comparative study of governmental activities. (b) Principles and methods of taxation.
3. Municipal Economy. A study of municipal functions in various countries and of the corresponding forms of municipal government. The actual experiences of cities in dealing with the problems growing out of the concentration of population will be compared with a view to determining how far and in what directions the modern tendency toward the extension of municipal activities is advantageous.
4. Social Therapeutics. A study of voluntary agencies for promoting social welfare.
5. Seminar in Comparative Legislation. Each member of the seminar will be expected to make a thorough study of some phase of public control, and after reporting upon the experiences of various governments—national, state, or municipal, as the case may be—to prepare a bill, suitable for presentation to a legislative body, embodying the most approved principles and methods of dealing with the subject.

**ENGINEERING—CIVIL.****PROFESSOR PRESSEY.**

1. Water Supply. Details of water works. Study of surface and underground waters as sources of supply, with special reference to methods of purification.
2. Sewerage. Details of sewerage systems, with special reference to methods of sewage disposal.
3. Hydrology. Flow of rivers, rainfall, and the effects of topography, forests, etc., upon the run-off of watersheds.
4. Irrigation.
5. Thesis, the subject of which is to be selected by the student and approved by the Professor of Civil Engineering.

**ENGINEERING—ELECTRICAL.****PROFESSOR WOLFF.**

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III, Corcoran Scientific School) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year, embracing the following studies:

1. Advanced Laboratory work.
2. Design of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, or some special research in applied electricity.

Students are recommended to take also Mechanical Engineering, Advanced Physics, Higher Mathematics, German, French, and Chemistry.

**ENGINEERING—MECHANICAL.****PROFESSOR AYRES.**

The course or study leading to the degree of Mechanical Engineer includes the following subjects: Steam-engine, Zeuner's diagrams, gas engine, and mechanics of machinery. In addition, the students are required to do individual work in taking indicator diagrams and making engine and boiler tests. The following works indicate the range of subjects:

Riggs' Steam-engine; Zeuner's Diagrams; Clerk's Gas Engine.

Weisbach-Hermann's Mechanics of Machinery: Hoisting machinery, accumulators, cranes, locomotives, etc. Day's Indicator Diagrams and Engine and Boiler Testing. Weisbach-Hermann's Mechanics of Machinery: Pumps, pumping engines, blowing engines, compressors, and fans.

**ENGLISH.****PROFESSOR WILBUR.**

Courses will be arranged to meet the needs of students actually in attendance. The work is not, as a rule, conducted in classes, but through personal conference and individual research. A satisfactory thesis is required at the completion of each course of graduate study.

1. The Elements of Style. (1) Sound: An investigation of the phonetic elements of words as a distinct factor in style. (2) Words: The sources and growth of the English vocabulary; the percentage of native words in the English of different writers; comparative values of the native and the foreign elements; the significance of words. (3) Sentences: The history of sentence-length and sentence-form in English prose. (4) Paragraphs: The history of the English paragraph. (5) Figures of Speech. (6) Forms of Discourse.

2. English Literary Criticism. (1) A study of the principles of literary criticism, with exercises in the criticism of literature of varying types. (2) The history of English literary criticism from the sixteenth century.



3. Literary History of America. A survey of the whole field, and a critical study of some phase of literary development.

4. English Romanticism. The history of English romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

5. Marlowe. The works of Christopher Marlowe, with studies in language, versification, dramatic art, influence, and interpretation.

6. Shakespeare. The works of Shakespeare, with inductive studies in phases of dramatic art, and in interpretation.

7. Tennyson. A comprehensive study of Tennyson's works; his literary characteristics; his ethical and religious teaching.

8. The Arthurian Legends. A study of their expression, development, and significance in English Literature.

9. Development of the English Novel.

## GEOLOGY.

PROFESSOR MERRILL.

This department offers a course of advanced study in Geology, both systematic and applied.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, are from time to time indicated by the instructor.

During the second year the student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. The course is modified to suit individual cases, in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

## GERMAN.

## PROFESSOR SCHOENFELD.

1. The Literature of the Sixteenth Century. Braune's *Neudrucke Deutscher Literaturwerke*. Humanism and Reformation, with special reference to Italian and French influences. Historical basis after Voigt, Janssen, Ranke, Burckhart, L. Geiger.

2. Literary awakening in Germany in the time of Frederick the Great; critical study of the literary centers—Leipzig, Zürich, Berlin. The Storm and Stress Period and the youthful works of Schiller and Goethe; critical investigation of Klopstock's Odes; the first three cantos of *Messias*.

3. History of the Second Classical Period. Lessing's *Laokoon*, *Dramaturgie*, *Literaturbriefe*: A study of German Critique. Detailed investigation into Schiller's and Goethe's works. Literary Germany at the death of Goethe (1832).

4. History of German Syntax.

## GREEK.

## PROFESSOR HUNTINGTON.

For the Master's Degree one of the following courses is offered :

1. Herodotus and Thucydides.

2. Homer (parts of the *Iliad* and *Odyssey* not read in the undergraduate course) and the Lyric Poets.

3. The Attic Orators.

For the degree of Doctor of Philosophy two of the following courses are offered :

4. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.

5. The Tragic Poets.

6. Plato or Aristotle.

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also (a) in Greek Composition; (b) in the Grammar and Philosophy of the Language; (c) in the History of Literature; (d) in Greek History and Archæology. They are also required to present a thesis on some subject connected with Greek study.

## HISTORY—AMERICAN.

PROFESSOR SWISHER.

1. Era of Exploration and Discovery. Theories respecting early settlements and aboriginal population of the North American Continent based upon Archæology, Ethnology, and Tradition.

2. Colonial History. Social, territorial, and commercial conditions of the English Colonists. Legal and political status of the Colonies as conceived by Parliament conflicts with the spirit of Independence developed by the environment of the Colonists. Union consummated through rebellion; Independence through revolution.

3. Constitutional History of the United States:

(a.) The history of the Constitutional principle traced through the early Colonial charters and "the Articles of Confederation" until finally formulated in the Constitution of 1789.

(b.) Construction of the Constitution developed under party issues from the first administration of Washington through the period of division and reconstruction.

4. The History of American Diplomacy. This course undertakes a careful study from original sources of the more important international controversies to which the United States has been a party, from the diplomacy of the Revolution to the report of the Venezuela Commission under President Cleveland.

5. The Rise and Fall of the Slave Power. Slavery as a factor in Colonial history; impetus given to the system by the Constitution of 1789; period of annexation and conquest; the causes and consequences of the Mexican war.

6. The History of the American people from 1765 to 1895.

## HISTORY—ANCIENT AND CHURCH.

PROFESSOR FARQUHAR.

1. Bible History. Frequent references to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors carefully considered, and the relations of Athenian to modern civilization pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors consulted, and the transition from the ancient to the modern civilization followed.

4. History of Christianity. Study of the development of the Church, and its relation to the general progress of mankind. Frequent references to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

## HISTORY—CONTINENTAL.

PROFESSOR SCHOENFELD.

1. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House. (Selections from the historical sources will be read and interpreted.)

2. The Holy Roman Empire from Rudolph of Hapsburg till the death of Maximilian I (1519), with special reference to *Kulturgeschichte*, and the first attempts at Church reform.

3. History of the Renaissance and Reformation.

Special courses may be arranged, after consultation, with graduate students.

## HISTORY—ENGLISH.

PROFESSOR SWISHER.

1. English Constitutional History. This course seeks to explain the present working of the English political system from a survey of the whole field of English history. It reviews in detail—

(a.) Early Saxon institutions as they reappear successively after Norman and Tudor absolutism and finally assert themselves under the later Stuarts.

(b.) Party government as developed under the Whig oligarchy of the Revolution and during the reign of George III until the final triumph of popular government by the Reform Act of 1831.

2. History of English Foreign Policy. England as a continental power; the policy of Wolsey as realized under Cromwell and William of Orange; struggle for the balance of power transferred to the seas; England and the Eastern question.

3. England as an Empire. Evolution of the imperial idea; the foundation of the Empire from the Conquest of Jamaica to the Battle of Trafalgar; the Empire as Modified by American History; the Political Situation in Canada, Australia, and South Africa.

4. The English in India. Condition of the peninsula during the Mogul Empire; establishment of British Supremacy; the Presidencies and the Native States; strength and weakness of England's position in the Far East.

5. England during the Nineteenth Century. A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation are arranged at the weekly meetings of the seminaries of American and English history.

## LATIN.

PROFESSOR CARROLL.

\* The aim of the graduate instruction in Latin is twofold :

(1) The attainment of a wider and more accurate knowledge of the Latin language and literature than can be acquired in the ordinary college course, and (2) special training in the methods of scientific research.

To serve these ends the Latin Seminary has been organized, composed of all the graduate students in the department. Each year some one author or branch of literature is made the center of study. Interpretations of the text under consideration are prepared by the members, and papers are read by them containing the results of special study of philological or literary topics. Furthermore, wide and systematic reading of Latin authors is carried on under personal supervision, and special courses of lectures are given from time to time on themes in Roman life and literature.

The center of study during the present session has been the rhetorical works of Cicero. The following courses are offered :

1. Horace and Roman Satire.
2. The Roman Epic.
3. The Roman Historians, especially Tacitus.

The Librarian of Congress has expressed a willingness to provide such books as are necessary for the effective prosecution of the work.

## MATHEMATICS—PURE.

PROFESSOR GORE.

1. Higher Plane Curves. Modern Higher Algebra.
2. Mathematical Reading. Carr's Synopsis of Pure Mathematics; Láska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.

3. Advanced Integral Calculus; Theory of Equations.

4. Functions. General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, *Théorie des Fonctions Abéliennes*.

PROFESSOR HODGKINS.

5. Differential Equations.

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This is supplemented by lectures and by the study of Forsyth's Differential Equations (two hours a week).

6. Determinants.

The first part of the year is given to the mastery of some elementary book on Determinants, such as that by Weld. This is followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

MATHEMATICS—APPLIED.

PROFESSOR HARSHMAN.

1. Geometry of Position, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.

2. Graphic Statics. This science may be studied with either of two objects in view:

(a.) As a part of Applied Mechanics.

(b.) As a part of Analytical Mechanics, based on geometry of position.

3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

## POLITICAL SCIENCE.

PROFESSOR CRAVEN.

1. A comparative study of the political institutions of the leading nations of the world, ancient and modern; the *history* of politics.

2. Political Science. An analytical study of the nature of the State and of public administration; the life and conduct of the State; the *art* of politics.

3. Political Philosophy. Speculation as to the origin of government; its ethical bases and the ideal form of the perfect State; the *theory* of politics.

## ROMANCE LANGUAGES.

PROFESSOR RAMSEY.

*French.*

The following three courses are offered in French literature, dealing with the three most prominent epochs of its history prior to the Revolution:

1. Francis I (1515-'47) and the Renaissance.

2. Henry IV (1589-1610).

3. Louis XIV (1643-1715).

In each of these courses the condition of the country at the period in question is studied (largely from French sources), and the important writers are made the subjects of special investigation, the effort throughout being to correlate details and to seek a general tendency of the literary movement.

4. French Romanticism.

A study of the Romantic movement in France, from its earliest manifestations to the Realist reaction, based upon the treatises of Brunetière, Albert, Pellissier, Gautier, and Meyer.



### 5. Modern French Syntax and Lexicology.

This course takes up the language at the point where the grammatical text books leave it. The broader principles of the use and arrangement of words, the expansion and change of their meaning, and the production of new words from material already existing in the language are illustrated by a textual study of the modern masters of French style.

### *Spanish.*

#### 1. Spanish Literature of the Eighteenth Century.

A study of the revival of culture following the War of the Spanish Succession; a general acquaintance with the culmination of Spanish literature in the Golden Era, and the subsequent decline is an implied prerequisite.

#### 2. Spanish Poets of the First Half of the Nineteenth Century.

While this course is made as comprehensive as possible, it naturally centers upon Quintana, Espronceda, Angel de Saavedra, Zorrilla, and Campoamor.

#### 3. Contemporary Spanish Fiction.

A comparative study of Valera, Pereda, Pérez Galdós, and Palacio Vadés, involving the tenets of modern literary criticism in Spain.

## SOLAR PHYSICS.

### PROFESSOR BIGELOW.

Graduate studies in Solar Physics in its relation to Meteorology.

1. Solar Magnetism. The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for the recent development of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. Cosmical Electricity and Magnetism. The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as

applied to the theories of light, heat, and ether wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. Terrestrial Magnetism. The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. Meteorology. The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement will be made of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects.

The results of the International Cloud Survey of the upper air; a comparative study of the theories of dynamic meteorology; Bigelow's standard system of equations useful in meteorology; the gradients of pressure, temperature, and vapor tension as determined by cloud computations, balloon and kite ascensions; these and related topics are included in this course.

## ZOÖLOGY.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

## PROCEDURE FOR ADMISSION.

Candidates for admission to this School must present the diplomas they hold, or certificates that they have received such diplomas, to the Dean of this School, and obtain from the Dean application blanks. When properly filled and signed these applications are to be returned to the Dean of this School, together with a catalogue of the institution from which the candidate received his diploma, to be submitted to the Board of Directors of University Studies for investigation; the applicant will thereupon be informed in writing of the action of the Board. When the applicant is informed that the Board of Directors of University Studies has approved his proposed course of study and has admitted him to candidature for a degree he should present himself at once to the Registrar and matriculate. He should then present his receipt card and matriculation paper to the Dean for his signature, and also obtain the signatures upon his matriculation paper of each of the professors with whom he is to study during the year. When this paper has been thus executed the student must sign it and return it to the Registrar.

## REQUIREMENTS FOR DEGREES.

### *The Masters' Degrees.*

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis accompanied with a bibliography.

### *Engineering Degrees.*

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are

qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, or Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis accompanied with a bibliography.

### *Doctors' Degrees.*

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates, they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years at this University in the study of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the results of original research in their minor subject, which theses they shall be prepared to defend before a board of experts.

### THESES.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official thesis paper can be purchased from the Registrar of the University.

All theses must be presented to the Dean not later than May 11.

No thesis for the degree of Doctor of Philosophy shall be submitted to the Faculty until it shall have been approved by the professor having supervision over the Major topic, and also by a co-referée, to be appointed from among the Faculty by the Dean.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation, and to present fifty copies of the printed thesis to the University, through the Dean, to be distributed among learned institutions.

### FINAL EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of the commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

### COMMENCEMENT.

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

### DOCTORATE DISPUTATION.

A Doctorate Disputation was held publicly in University Hall May 21, 1900. The theses that were successfully defended, the candidates, and the boards of examiners were as follows:

**THESIS:** Experiments on the direct conversion of the energy of carbon into electrical energy.

**CANDIDATE:** Eugene Byrnes, B. A. (Michigan University), LL. B., LL. M. (Columbian).

**BOARD:** Lyman J. Briggs, M. S.; George S. Ely, Ph. D.; Frank K. Cameron, Ph. D.

**THESIS:** The concept of self in the analysis of experience.

**CANDIDATE:** Rev. Benjamin Alfred Dumm, B. A., M. A. (Western Maryland College).

**BOARD:** Charles B. Bliss, Ph. D.; Rev. Francis A. Henry, M. A.; Rev. Frank Sewall, M. A.

**THESIS:** Investigation of the phenomenon of deliquescence and of the capacity of salts to attract water vapor.

**CANDIDATE:** Professor Charles Russel Ely, A. B., A. M. (Yale).

**BOARD:** H. Carrington Bolton, Ph. D.; Charles A. Crampton, B. L., M. D.; Rev. Professor John J. Griffin, Ph. D.

**THESIS:** The action of phosphonium iodide on tetra and penta chlorides.

**CANDIDATE:** Ernestine Fireman, M. A. (Columbian).

**BOARD:** Frank K. Cameron, Ph. D.; Professor W. H. Seaman, M. D.; Henry N. Stokes, Ph. D.

**THESIS:** The northwest under three flags.

**CANDIDATE:** Charles Moore, A. B. (Harvard), M. A. (Columbian).

**BOARD:** Hon. John B. Henderson, LL. D.; Rt. Rev. Henry Y. Satterlee, D. D., LL. D., Bishop of Washington; Hon. Robert R. Hitt.

## EXPENSES.

Matriculation fee of candidates for any degree conferred.	\$10 00
Annual fee for instruction and direction of candidates for Master's degrees.....	30 00
Annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree.....	90 00
Diploma fee.....	10 00

Where laboratory courses are taken, an additional fee is required.

Regular students in the School of Graduate Studies or in the School of Comparative Jurisprudence and Diplomacy who are candidates for degrees in courses that require an elementary knowledge of languages will be admitted to courses in Languages in the Corcoran Scientific School at a special annual fee of twenty dollars for each department of languages taken.

Students proposing to withdraw from the School of Graduate Studies will inform the Registrar to that effect. In the absence of such notification, no claims for exemption from fees will be allowed.

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For further information concerning the School of Graduate Studies, application may be made to

CHARLES E. MUNROE, *Dean*.

## STUDENTS IN THE SCHOOL OF GRADUATE STUDIES.

### *In Attendance.*

Name.	State.	Address.
Ellen Lyle Day . . . . .	Ky. . . .	623 Florida Avenue.
B. S., 1889, Caldwell College, Ky. Topic, English.		
Bernard Herman. . . . .	D. C. . .	702 H Street.
B. S., 1899, Massachusetts Institute of Technology. Topics, Civil Engineering and Ap- plied Mathematics.		
Elias Nelson. . . . .	Wyo. . .	Takoma Park, D. C.
B. A., 1898, M. A., 1899, University of Wyoming. Topic, Botany.		
William Wentworth Stevens. . .	D. C. . .	1328 Columbia Road.
S. B., 1898, Massachusetts Institute of Technology. Topic, Civil Engineering.		
Mayville William Twitchell. . . .	N. Y. . .	409 R Street.
B. S., 1899, M. S., 1900, Columbian University. Topic, Advanced Paleontology.		
Clara Mary Upton. . . . .	D. C. . .	3408 Morgan Avenue.
B. A., 1897, M. S., 1899, Columbian University. Topic, Mathematics.		
William James Wallis. . . . .	D. C. . .	607 N. C. Ave., S. E.
A. B., 1894, Dartmouth College. M. A., 1899, Columbian University.		
Charles Drake Westcott. . . . .	D. C. . .	1414 20th Street.
LL. B., 1899, LL. M., 1900, Columbian University. Topic, Continental History.		

### *For the Degree of Civil Engineer.*

Name.	State.	Address.
Lester Morton Holt . . . . .	D. C. . .	Care Auditor P. O. D.
B. S., 1900, Columbian University.		
Charles Real Olberg. . . . .	Minn. .	1919 13th Street.
B. S., 1900, Columbian University.		



*For the Degree of Mechanical Engineer.*

Name.	State.	Address.
James Edward Caughman.....	S. C...	Navy Dept. (Annex).
B. S., 1900, Clemson Agricultural and Mechanical College.		
John Adger McCrary.....	S. C...	924 Mass. Avenue.
B. S., 1898, Clemson Agricultural and Mechanical College.		
Edward Adams Muir.....	D. C...	Ord. Office, Navy Yard.
B. S., 1897, Columbian University.		
John Frank Sullivan.....	S. C...	Bu. Equip., Navy Dep.
B. S., 1900, Clemson Agricultural and Mechanical College.		
George Henry Swygert.....	S. C...	924 Mass. Avenue.
B. S., Clemson Agricultural and Mechanical College.		

*For the Degree of Master of Science.*

Name.	State.	Address.
David Holmes Blakelock.....	D. C...	619 6th Street, S. W.
B. S., 1899, Columbian University.		
Topic, Chemistry.		
Harry Wallace Bowen.....	Mass...	Rm. 87, U. S. Pat. Off.
B. S., 1893, Worcester Polytechnic Institute.		
Topic, Electricity.		
Martha Maria Brewer.....	Mass...	118 Mass. Ave., N. E.
B. S., 1900, Columbian University.		
Topic, Chemistry.		
Archibald Webster Brown.....	Md....	1729 13th Street.
B. S., 1899, Columbian University.		
Topic, Architecture.		
Louis Waterhouse Carter .....	S. Dak.	Takoma Park, D. C.
B. S., 1892, South Dakota Agricultural College.		
Topic, Botany.		
Calvin Grant Church.....	Md....	College Park, Md.
B. S., 1900, Maryland Agricultural College.		
Topic, Agricultural Chemistry.		
George Steed Edelen.....	Md....	College Park, Md.
B. S., 1900, Maryland Agricultural College.		
Topic, Agricultural Chemistry.		

Name.	State.	Address.
<b>Elmer Otterbein Fippin</b> .....	Ohio ..	U. S. Dept. Agricult.
B. S., Ohio State University.		
<i>Topic, Botany.</i>		
<b>Anna Sarah Hazelton</b> .....	D. C...	1215 9th Street.
B. S., 1892, Columbian University.		
<i>Topic, Mathematics.</i>		
<b>Edwin Allston Hill</b> .....	Conn..	1221 K Street.
A. B., 1875, Yale College.		
<i>Topic, Chemistry.</i>		
<b>Alfred Emerson Jessup</b> .....	Md....	Supervising Archi- tect's Office, Treas- ury Department.
B. S., 1892, Lehigh University.		
<i>Topic, Chemistry.</i>		
<b>Arthur D. Kidder</b> ....	Iowa...	Division E., General Land Office.
B. S., 1899, Rose Polytechnic Institute.		
<i>Topic, Astronomy.</i>		
<b>Edward Janney Sidwell Lupton</b> .	W. Va.	3044 14th Street.
B. S., 1899, Columbian University.		
<i>Topic, Neurology.</i>		
<b>Thomas Herbert Means</b> .....	D. C...	Brookland, D. C.
B. S., 1898, Columbian University.		
<i>Topic, Geology.</i>		
<b>Baxter Morton</b> .....	Va ....	U. S. Patent Office.
B. A., 1893, B. S., 1894.		
<i>Topic, Bio-chemistry.</i>		
<b>Clarence Stuart Mullikin</b> .....	Md....	Halls, Prince George County, Maryland.
B. S., 1895, Maryland Agricultural College.		
<i>Topic, Pure Mathematics.</i>		
<b>Robert Edward Lee Newberne</b> .	Texas..	1453 14th Street.
M. D., 1893, Georgetown University.		
D. D. S., Tacoma College of Dental Surgery.		
<i>Topic, Neurology.</i>		
<b>Charles Mathias Nissen</b> .....	Ohio...	1354 Yale Street.
B. S., 1900, Case School of Applied Science.		
<b>Homer Edgar Nowlin</b> .....	Tenn..	War Department.
B. S., 1892, Bethel College.		
M. D., 1896, Georgetown University.		
<i>Topic, Chemistry.</i>		
<b>John Bernard Robb</b> .....	Va ....	College Park, Md.
B. S., 1900, Maryland Agricultural College.		
<i>Topic, Agricultural Chemistry.</i>		

Name.	State.	Address.
Atherton Seidell.....	Ga.....	1117 S Street.
B. S., 1899, University of Georgia.		
Topic, Physical Chemistry.		
Harry Meeker Sheldon.....	N. Y...	21 5th Street, S. E.
Ph. B., 1898, Colgate University.		
Topic, Agricultural Chemistry.		
Sidney Fuller Smith.....	N. Y...	U. S. Patent Office.
Graduate, 1884, U. S. Naval Academy.		
Topic, Electricity.		
Frank Owen Stetson .....	Mass...	1802 R Street.
B. S., 1888, Massachusetts Institute of Technology.		
Topic, Spanish.		
Edna Livingston Stone.....	D. C...	3044 14th Street.
B. A., 1900, Woman's College of Baltimore.		
Topic, Botany.		
Martin Norris Straughn.....	Md....	College Park, Md.
B. S., 1900, Maryland Agricultural College.		
Topic, Agricultural Chemistry.		
Thomas Vincent Sullivan.....	D. C...	1530 9th Street.
A. B., 1900, Georgetown University.		
Topic, Chemistry.		

*For the Degree of Master of Arts.*

Name.	State.	Address.
John Henry Altschu.....	D. C...	1334 G Street.
B. A., 1897, Columbia University.		
Topic, American History.		
Dwight Wood Baker .....	R. I...	729 18th Street.
A. B., 1899, Brown University.		
Topic, American History.		
Charles Harrison Braden .....	Ky.....	1710 F Street.
B. A., 1900, Georgetown College.		
Topic, Ancient and Church History.		
Reed Paige Clark .....	N. H..	1424 11th Street.
B. A., 1898, Columbia University.		
Topic, French.		
Rev. Wm. Wilberforce Costin..	Md....	Woodside, Md.
A. B., 1893, Mount Allison College.		
Topic, Philosophy.		

Name.	State.	Address.
Lucy Webster Cummings... B. A., 1897, Wellesley College. <i>Topic, German.</i>	D. C...	Howard University.
Franklin Davis ..... A. B., 1900, Hampden-Sidney College. <i>Topic, Biblical Literature.</i>	Va ....	Seminary, Va.
Herbert Ernest Day ..... Ph. B., 1893, Brown University. M. A., 1896, Gallaudet College. <i>Topic, English.</i>	Conn ..	623 Florida Ave., N. E.
Charles Keyser Edmunds. .... A. B., 1897, Johns Hopkins University. <i>Topic, Applied Mathematics.</i>	Md. ....	315 S Street, N. E.
Charles Allcott Flagg ..... A. B., 1894, Bowdoin College. B. L. S., 1899, New York State Library School. <i>Topic, American History.</i>	N. Y ..	136 D Street, S. E.
William Dean Goddard ..... A. B., 1894, Colgate University. <i>Topic, Philosophy.</i>	Mass...	109 1st Street, N. E.
Rolvix Harlan ..... B. A., 1900, Columbian University. <i>Topic, Biblical Literature.</i>	D. C...	1229 10th Street, S. E.
James Edgar Hiatt ..... B. S., 1899, Columbian University. <i>Topic, Spanish.</i>	Ind....	813 3d Street.
Frederick Charles Hicks ..... Ph. B., 1898, Colgate University. <i>Topic, Economics.</i>	N. Y ..	154 R Street, N. E.
Ida Hinman ..... B. S., 1892, Iowa Wesleyan University. <i>Topic, English.</i>	Iowa ..	1414 H Street.
Frank H. Hitchcock ..... A. B., 1891, Harvard University. LL. B., 1894, LL. M., 1895, Columbian University. <i>Topic, Patent Law.</i>	Mass...	Dep't of Agriculture.
James David Jaquette ..... B. S., 1889, Delaware College. <i>Topic, Continental History.</i>	Del ....	Rockville, Md.

Name.	State.	Address.
<b>Margaret McLean</b> .....	<b>Texas..</b>	<b>306 M Street.</b>
A. B., 1892, Southwestern University.		
<i>Topic, American History.</i>		
<b>Rev. David Wallace Montgomery</b> .....	<b>Va ....</b>	<b>Herndon, Va.</b>
A. B., 1880, Hastings College.		
<i>Topic, Biblical Literature.</i>		
<b>Jessie Louisa Nelson</b> .....	<b>Ill. ....</b>	<b>1714 Q Street.</b>
S. B., 1897, Chicago University.		
<i>Topic, Mathematics.</i>		
<b>Rev. Ernest Moorhead Paddock.</b>	<b>Pa. ....</b>	<b>1723 H Street.</b>
A. B., 1894, University of Pennsylvania.		
Graduate, 1897, Theological School, Cambridge, Mass.		
<i>Topic, Philosophy.</i>		
<b>Elsie Elizabeth Parkinson</b> .....	<b>D. C... </b>	<b>806 9th Street, N. E.</b>
B. A., 1900, Columbian University.		
<i>Topic, English.</i>		
<b>Rev. George Freeland Peter</b> ...	<b>D. C... </b>	<b>207 A Street, S. E.</b>
<i>Topic, Philosophy.</i>		
<b>Sarah Harvey Porter</b> .....	<b>D. C... </b>	<b>1207 Q Street.</b>
<i>Topic, English.</i>		
<b>Herbert Harry Powell</b> .....	<b>Va ....</b>	<b>Theological Sem., Va.</b>
Ph. B., 1899, Taylor University.		
<i>Topic, Philosophy.</i>		
<b>Will Allyn Reed</b> .....	<b>Ind....</b>	<b>1119 K Street.</b>
A. B., 1898, Indiana University.		
<i>Topic, English.</i>		
<b>Alvis Lemuel Rhoton</b> .....	<b>Ky ....</b>	<b>536 20th Street.</b>
A. B., 1899, Georgetown College.		
<i>Topic, Mathematics.</i>		
<b>Florence Sally Rogers</b> .....	<b>Conn..</b>	<b>1617 13th Street.</b>
B. S., 1894, Wellesley College.		
<i>Topic, Germanic Literature.</i>		
<b>Georgia Sanderlin</b> .....	<b>N. C... </b>	<b>1008 N Street.</b>
B. A., 1898, Columbian University.		
<i>Topic, English.</i>		
<b>Augustus Wesley Stuhrman</b> ....	<b>Wash..</b>	<b>601 9th Street.</b>
A. B., 1884, A. M., 1887, Central Wesleyan College.		
<i>Topic, American History.</i>		

- | Name.                                | State.   | Address.          |
|--------------------------------------|----------|-------------------|
| Granville Richard Swift.....         | Va....   | 1528 I Street.    |
| A. B., 1900, Fredericksburg College. |          |                   |
| <i>Topic, Economics.</i>             |          |                   |
| Giles Russell Taggart.....           | N. J.... | Garrett Park, Md. |
| B. S., 1900, Columbian University.   |          |                   |
| <i>Topic, English.</i>               |          |                   |
| Pearl Edna Thonssen.....             | D. C.... | 457 M Street.     |
| B. S., 1900, Columbian University.   |          |                   |
| <i>Topic, Mathematics.</i>           |          |                   |
| George Liggitt Ward.....             | Mass..   | 2905 13th Street. |
| A. B., 1899, Yale University.        |          |                   |
| <i>Topic, English.</i>               |          |                   |
| Rev. Herb't Ferguson Williams.       | Va....   | Vienna, Va.       |
| A. B., 1891, Richmond College.       |          |                   |
| <i>Topic, Latin.</i>                 |          |                   |

*Doctors of Philosophy.*

- | Name.  | State.   | Address.           |
|--|----------|--------------------|
| Gustav Ayres.....  | D. C.... | 2017 Kalorama Ave. |
| M. E., 1889, Lehigh University.  |          |                    |
| <i>Topics—Major, Analytic Chemistry;</i>                                     |          |                    |
| Minors, Organic Chemistry, Mineralogy.                                       |          |                    |
| Victor King Chesnut.....   | Cal....  | 1104 P Street.     |
| B. S., 1890, University of California.                                       |          |                    |
| <i>Topics—Major, Plant Chemistry;</i>  |          |                    |
| Minors, Organic Chemistry, Botany.   |          |                    |
| George Wetmore Colles.....   | Mass...  | 930 T Street.      |
| A. B., 1892, Yale University.  |          |                    |
| Mech. E., 1894, Stevens Institute of Technology.                             |          |                    |
| <i>Topics—Major, Meteorology; Minors,</i>                                    |          |                    |
| Solar Physics, Applied Mathematics.  |          |                    |
| Rev. Frank Leighton Day.....   | Va....   | 1302 30th Street.  |
| B. A., 1891, M. A., 1896, Roanoke College.                                   |          |                    |
| B. D., 1895, Vanderbilt University.  |          |                    |
| <i>Topics—Major, Ancient and Church History; Minors, Sociology, English.</i> |          |                    |

Name.	State.	Address.
<b>Marion Dorset</b> .....	Tenn..	1120 N. Y. Avenue.
B. S., 1893, University of Tennessee. M. D., 1896, Columbia University. <i>Topics</i> —Major, Biochemistry; Minors, Pathology, Bacteriology.		
<b>Aida Mary Doyle</b> .....	Pa.....	1902 3d Street.
B. S., 1898, M. S., 1899, Columbia University. <i>Topics</i> —Major, Chemistry; Minors, Organic Chemistry, Physical Chemistry.		
<b>William Thomas Faulkner</b> .....	Miss...	Auditor P. O. Dept.
B. S., 1898, M. A., 1900, Columbia University. <i>Topics</i> —Major, Spanish; Minors, French, English.		
<b>Percival Hall</b> .....	D. C...	Kendall Green.
A. B., 1892, Harvard College. M. A., 1893, Gallaudet College. M. A., 1898, Columbia University. <i>Topics</i> —Major, Pure Mathematics; Minors, Applied Mathematics, Astronomy.		
<b>William Hamilton</b> .....	Pa.....	Bureau of Education.
B. A., 1891, Mogravian College, Pa. M. A., 1894, Columbia University. <i>Topics</i> —Major, American History; Minors, English History, Economics.		
<b>Professor William Perry Hay</b> ..	D. C...	Howard University.
B. S. 1891, M. S., 1892, Butler University. <i>Topics</i> —Major, Zoölogy; Minors, Botany, Geology.		
<b>Rev. Albert Mayer Hilliker</b> ...	Minn..	Theological Sem'y, Va.
B. D., 1890, Seabury Divinity School. M. A., 1899, Columbia University. <i>Topics</i> —Major, Philosophy; Minors, History of Philosophy, Philosophy of History.		
<b>Nevil Monroe Hopkins</b> .....	D. C...	Metropolitan Club.
B. S., 1899, M. S., 1900, Columbia University. <i>Topics</i> —Major, Chemistry; Minors, Electricity, Organic Chemistry.		

- | Name.   | State.         | Address.                    |
|---|----------------|-----------------------------|
| <b>William Mather Lamson.....</b>   | <b>D. C...</b> | <b>1623 N Street.</b>       |
| B. S., 1897, C. E., 1899, Columbia University.  |                |                             |
| <i>Topics</i> —Major, Applied Mathematics; Minors, Applied Mathematics, Pure Mathematics.   |                |                             |
| <b>Edwin Rufus Lewis.....</b>   | <b>D. C...</b> | <b>1623 N Street.</b>       |
| A. B., 1861, A. M., 1864, Amherst College.  |                |                             |
| M. D., 1867, Harvard College.   |                |                             |
| 1871, Union Theological Seminary.   |                |                             |
| <i>Topics</i> —Major, Biblical Literature; Minors, Philosophy, Ancient and Church History.  |                |                             |
| <b>Rev. Donald Campbell McLeod.</b>   | <b>D. C...</b> | <b>316 Indiana Avenue.</b>  |
| B. A., 1893, M. A., 1898, Franklin College.   |                |                             |
| 1898, Western Theological Seminary.   |                |                             |
| <i>Topics</i> —Major, Philosophy; Minors, Sociology, Biblical Literature.                   |                |                             |
| <b>Caleb Clark Magruder.....</b>  | <b>Md....</b>  | <b>Treasury Department.</b> |
| A. B., 1889, A. M., 1898, Loyola College.   |                |                             |
| LL. B., 1897, Georgetown University.  |                |                             |
| M. A., 1899, Columbia University.   |                |                             |
| <i>Topics</i> —Major, English; Minors, English History, Philosophy.                         |                |                             |
| <b>Stephen Cookman Miller.....</b>  | <b>Minn..</b>  | <b>1235 N. J. Avenue.</b>   |
| M. D., 1884, M. S., 1898, Columbia University.  |                |                             |
| Phar. D., 1888, Howard University.  |                |                             |
| <i>Topics</i> —Major, Mineral Chemistry; Minors, Organic Chemistry, Petrography.            |                |                             |
| <b>Joseph Strayer Mills.....</b>  | <b>Md....</b>  | <b>Central High School.</b> |
| B. A., 1890, M. A., 1893, Western Maryland College.   |                |                             |
| <i>Topics</i> —Major, Chemistry, Minors, Mineralogy, Physics.                               |                |                             |
| <b>Henry Orth, Jr.....</b>  | <b>D. C...</b> | <b>1011 L Street.</b>       |
| M. E., 1893, Lehigh University.   |                |                             |
| M. S. 1899, Columbia University.  |                |                             |
| <i>Topics</i> —Major, Physical Chemistry; Minors, Organic Chemistry, Theoretical Chemistry. |                |                             |



Name.	State.	Address.
<b>Clarence Julian Owens</b> ..... M. A., 1900, Columbian University. <i>Topics</i> —Major, English; Minors, History, Philosophy.	S. C...	Metropolitan Hotel.
<b>George Edward Patrick</b> ..... B. S., 1873, M. S., 1874, Cornell Uni- versity. <i>Topics</i> —Major, Agricultural Chem- istry; Minors, Biochemistry, Bac- teriology.	Iowa..	Division of Chemistry, Dept. of Agriculture.
<b>Warren Waverley Phelan</b> ..... B. A., 1894, M. A., 1896, Columbia. <i>Topics</i> —Major, Comparative Juris- prudence; Minors, German and Continental History, Political Phi- losophy.	N. Y...	822 Connecticut Ave.
<b>Edward George Portner</b> ..... B. S., 1897, M. S., 1898, Columbian University. <i>Topics</i> —Major, Organic Chemistry; Minors, Mineral Chemistry, Theo- retical Chemistry.	D. C...	1104 Vermont Ave.
<b>Fred Ferguson Reisner</b> ..... B. S., 1897, E. E., 1898, Columbian University. <i>Topics</i> —Major, Physics; Minors, Mathematics, Physical Chemistry.	Mo....	323 T Street.
<b>Charles Francis Phelps Richard-  son</b> ..... A. B., 1896, Harvard University. M. A., 1900, Columbian University. <i>Topics</i> —Major, Continental History (3); First Minor, Constitutional Law; Second Minor, Continental History (1).	Mass...	Metropolitan Club.
<b>Chohei Shirasu</b> ..... 1893, Doshisha University. A. M., 1899, Yale University. <i>Topics</i> —Major, Finance; Minors, Economics, Comparative Juris- prudence.	Japan..	Japanese Legation.
<b>Christian George Storm</b> ..... B. S., 1898, M. S., 1899, Columbian University. <i>Topics</i> —Major, Chemistry; Minors, Physical Chemistry, Mineralogy.	Wis....	316 Del. Ave., N. E.

Name.	State.	Address
<b>Ernest Lawton Thurston.....</b> C. E., 1893, Columbia University. <i>Topics</i> —Major, Graphic Statics ; Minors, Higher Calculus, Differential Equations.	D. C...	1503 R Street.
<b>Rev. Albert Norman Ward.....</b> A. B., 1895, Western Maryland College. M. A., 1900, Columbia University. <i>Topics</i> —Major, English ; Minors, Biblical Literature, History.	Md....	124 7th Street, S. E.
<b>William Allen Wilbur.....</b> A. B., 1888, A. M., 1894, Brown University. <i>Topics</i> —Major, Philosophy ; Minors, Gothic, English History.	Conn..	The Columbian Univ.
<b>* Thomas Albert Williams.....</b> B. S., 1889, M. A., 1891, University of Nebraska. <i>Topics</i> —Major, Phanerogamic Botany ; Minors, Cryptogamic Botany, Geology.	Neb....	Takoma Park, D. C.
<b>Thomas Alfred Witherspoon...</b> 1883, E. S., Naval Academy. LL. B., 1891, M. S., 1897, Columbia University. <i>Topics</i> —Major, Physical Chemistry ; Minors, Chemistry, Electricity.	Tenn..	U. S. Patent Office.
<b>Total.....</b>		<b>109</b>

\* Died December 23, 1900.

# THE LAW SCHOOL.

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## THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

HON. WALTER S. COX, LL. D.,  
*Dean,*  
(Sometime Associate Justice of the Supreme Court of the  
District of Columbia),  
Professor of the Law of Real Property and Contracts.

HON. JOHN M. HARLAN, LL. D.,  
(Associate Justice of the Supreme Court of the United States),  
Professor of Constitutional Law, Domestic Relations,  
Torts, and Personal Property.

HON. DAVID J. BREWER, LL. D.  
(Associate Justice of the Supreme Court of the United States),  
Professor of the Law of Corporations and  
Equity Jurisprudence.

HON. WILLIAM A. MAURY, LL. D.  
(Sometime Assistant Attorney General of the United States),  
Professor of Common Law Pleading, Evidence, the  
Jurisdiction and Practice of the Federal  
Courts, and Insurance.

HON. ANDREW C. BRADLEY, LL. B.  
(Associate Justice of the Supreme Court of the District of  
Columbia),  
Professor of Commercial Paper and Criminal Law.

WILLIAM G. JOHNSON, LL. M.  
(of the Washington Bar),  
Professor of Common Law Practice.

HON. WILLIS VAN DEVANTER

(Assistant Attorney General of the United States),  
Professor of Equity Pleading and Practice.

MELVILLE CHURCH, LL. M.,

Professor of the Law of Patents.

WILLIAM F. MATTINGLY, A. M.

(of the Washington Bar),  
Professor of Practical Commercial Law.

CHARLES W. NEEDHAM, LL. M.

(of the Washington Bar),  
Professor of the History of Law, Trusts, and Trades Unions,  
and in charge of the Moot-Court Work.

WALTER C. CLEPHANE, LL. M.

(of the Washington Bar),  
Assistant Professor of the Law of Contracts, and Instructor in  
Moot-Court Work.

ARTHUR PETER, LL. M.

(of the Washington Bar),  
Assistant Professor of the Law of Real Property, and Instructor  
in Moot-Court Work.

EDWIN C. BRANDENBURG, LL. M.,

Professor of Procedure in Bankruptcy.

CHANNING RUDD, LL. B.

(of the Washington Bar),  
Professor of Oratory.

COURT OF APPEALS.

WILLIAM F. MATTINGLY,  
Chief Justice.

ANDREW B. DUVALL,  
CHARLES W. NEEDHAM,  
Associate Justices.

CHANNING RUDD, LL. B.,  
Librarian.

J. HENRY ALTSCHU, A. B.,  
Assistant Librarian.

WILLIAM E. McCLURE, A. B., LL. B.,  
Clerk of the Moot Court.

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CHARLES DRAKE WESTCOTT, LL. M.,  
Secretary of the Schools of Law.

This school was established in 1865, and it is the oldest law school in Washington. Men occupying the highest positions in the profession are in its faculty, personal contact with whom is a source of inspiration to every student.

LAW LECTURE HALL.

The University has recently completed and now occupies a new building, known as Law Lecture Hall, devoted exclusively to its "Schools of Law and Diplomacy." It adjoins University Hall, corner Fifteenth and H Streets, and is only two blocks from the Executive Mansion. This new building contains three commodious lecture halls, two moot-court rooms, a large and well lighted library-room, and administrative offices. The building is lighted by electricity, handsomely furnished, and well equipped and adapted to the work for which it is designed.

## ADMISSION.

Applicants for admission to the First-year class as candidates for a degree must be at least eighteen years of age, and must have had an education equivalent to a high school course.

The educational requirement may be satisfied by a presentation of certificates or by an examination before the Dean. Application blanks will be furnished by the Secretary.

The regular course of study embraces three years. There is also a special course of one year in Patent Law.

A student may be admitted to advanced standing upon furnishing evidence satisfactory to the Dean that he has spent the necessary time and performed the necessary study, whether in another law school or under the direction of a practicing lawyer; but in all such cases he will be required to produce a certificate of the fact or sustain an examination on all the subjects for which he asks credit.

The annual session begins on the first Monday in October, and continues until the Wednesday nearest the first day of June following.

The exercises of the department begin at six o'clock p. m. every week day except Saturday.

The register will be opened for the enrollment of students on the first day of September.

The University, in October, 1898, increased the regular course of study for candidates for the degree of Bachelor of Laws to three years. The work has been largely increased with a view of giving students that thorough knowledge of the general rules of law and practice which will fit them for the Bar of any State. The course will give the general sources of law, the law upon the great subjects of jurisprudence, and the practical side of legal education. Professors will conduct the study of each subject by lectures, required courses of reading, and class discussions and conferences. The study of special cases upon the various subjects treated and the Moot-Court work have been largely increased, thus bringing before the student the modern applications of law by the courts of the country.

Special instruction and practical work are given the students in the preparation of Contracts, Wills, and in the organization of Corporations. This work is carefully examined and returned

to the student, with suggestions by the instructors in charge of the work.

Professors will meet each class separately, and will hold final examinations on the work assigned during each year.

There will be ten hours per week of class-room work in each year of the course.

## COURSES OF INSTRUCTION.

### *First Year.*

After preliminary lectures on the study of law, the courses are as follows :

CLASSIFICATION AND HISTORY OF AMERICAN AND ENGLISH LAW.—Professor Needham. \* One hour. “*Elements of American Jurisprudence*” (Robinson); “*Smith’s Elementary Law*”; “*History of English Law*” (Pollock and Maitland).

DOMESTIC RELATIONS.—Professor Harlan. One hour, one-half year. “*Brown on Domestic Relations*” and special leading cases.

PERSONAL PROPERTY.—Professor Harlan. One hour, one-half year. “*Smith on Personal Property*” and special leading cases.

TORTS.—Professor Harlan. One hour. “*Pollock on Torts*” and special cases.

CRIMINAL LAW.—Professor Bradley. One hour, one-half year.

REAL PROPERTY.—Professor Cox. Two hours, one-half year. *Blackstone*.

CONTRACTS, INCLUDING AGENCY, PARTNERSHIP, SALES, BAILMENTS, INSURANCE, ETC.—Professor Cox. Two hours, one-half year. “*Parsons on Contracts*.”

COMMERCIAL PAPER.—Professor Bradley. One hour, one-half year.

CLASS CONFERENCE—REAL PROPERTY.—Mr. Peter. Two hours, one-half year.

CLASS CONFERENCE—CONTRACTS.—Mr. Clephane. Two hours, one-half year.

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\* Unless otherwise stated, hours per week throughout the year.

First year's instruction will be carried on by topical lectures, supplemented by carefully arranged courses of reading and the study of selected cases which state and illustrate the law. There will be class discussions upon the lectures, and free questioning by students is encouraged. Quiz classes may be formed, and every facility will be afforded the student to aid him in a thorough understanding of the subjects studied.

*Second Year.*

COMMON LAW PLEADING.—Professor Maury. Two hours.  
*“Stephen on Pleading”* (Tyler).

EVIDENCE.—Professor Maury. One hour. *“Greenleaf on Evidence”* and special cases.

EQUITY JURISPRUDENCE.—Professor Brewer. One hour, one-half year. *Pomeroy, Adams, or Story.*

CONSTITUTIONAL LAW.—Professor Harlan. One hour. *Story.*

CORPORATIONS.—Professor Brewer. One hour, one-half year.  
*Morawetz, Clark, or Dillon.*

REAL PROPERTY.—Professor Cox. Two hours, one-half year.  
*Kent and Tiedeman and special cases.*

CONTRACTS.—Professor Cox. Two hours, one-half year. *Special cases.*

INSURANCE—FIRE, LIFE, AND MARINE.—Professor Maury. One hour.

ORGANIZATION OF TRUSTS AND TRADES UNIONS.—Professor Needham. One hour, one-half year.

CLASS CONFERENCES AND SPECIAL ASSIGNMENTS.—Two hours.

Special courses of reading in text-books and selected cases will be assigned by the professors, and cases will be used in the lectures to illustrate the subject under consideration. Practical work in the preparation of contracts and written obligations of various kinds will be given to students by the professors, and this work carefully examined. The second year students will be divided into sections, and there will be discussions and papers upon the subjects gone over in the first and second years' study.



*Third Year.*

CRIMINAL PROCEDURE.—Professor Bradley. One hour, one-half year. *May.*

COMMON LAW PRACTICE.—Professor Johnson. One hour. "*Cox's Common Law Practice*" and *selected cases.*

FEDERAL PROCEDURE.—Professor Maury. One hour, one-half year.

EQUITY PLEADING AND PRACTICE.—Professor Van Devanter. One hour. "*Shipman on Equity Pleading*" and *special cases.*

PRACTICAL COMMERCIAL LAW.—Professor Mattingly. One hour, one-half year. *Special cases.*

PROCEDURE IN BANKRUPTCY.—Professor Brandenburg. One hour, one year.

PREPARATION OF CONTRACTS.—Professor Needham.

TESTAMENTARY LAW AND INFANCY (part of the Moot-Court work).—Mr. Peter.

TESTAMENTARY PRACTICE AND INFANCY (part of the Moot-Court work).—Mr. Clephane.

MOOT COURTS.—Professor Needham and Messrs. Clephane and Peter. Six hours.

The third year course will also be carried on by special lectures and the study of selected cases; special courses of reading will be assigned, and each student in the third year will take part in the preparation of cases in the Moot Courts, law and equity, upon such a statement of facts as a client would give to a lawyer in active practice, the cases to be carried through from the commencement of the action to a final hearing, according to rules of procedure prepared by the professor in charge of the Moot Courts; cases may be taken by appeal to the Appellate Moot Court, thus giving the student practice and drill in determining what actions will lie upon a given state of facts, what defenses may be interposed, and the various steps in the conduct of cases in court. These courts will be presided over by professors and lawyers from the Washington Bar.

## PATENT LAW COURSE.

A special course in Patent Law and Patent Law Practice will be conducted by Professor Church, giving thorough preparation to those who contemplate entering that department of jurisprudence. This course covers a period of eight months, with two lectures or sessions of the Moot Court each week. The degree of Master of Patent Laws will be conferred upon those who pass satisfactory examinations at the close of the term. Only graduates in law or members of the bar are eligible to the degree, but any person qualified to profit by the instruction offered will be admitted to the course.

## ORATORY.

The purpose of this course is to qualify the student to express his knowledge and communicate his ideas in a convincing, persuasive, and effective manner. Oratory is the ability to arouse the will of the hearer to act in a given direction. By culture the voice is made rich, powerful, and flexible, the body trained to aid in the expression of thought and emotion, and the mind trained to quick, clear, and logical thinking. This course includes voice culture, chest cultivation, deep breathing, gesticulation, self-control, extemporaneous speaking, argumentation, debating, and brief drawing.

## EXAMINATIONS.

Written examinations will be required upon each subject specified in the courses and will be conducted at the conclusion of each subject. At the close of the third year a general review and examination may be had. The standing of the student upon the several examinations and the regularity of his attendance upon the course will determine his right to the degree.

## DEGREE OF BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

## FEES AND EXPENSES.

The tuition fee for the regular course is one hundred dollars per year of eight months; this to be paid in advance, monthly or quarterly, at the option of the student. The tuition fee for the Patent Law course is forty dollars; for the course in Oratory fifteen dollars. A charge of ten dollars in all cases is made for diplomas, and two dollars for library fee each year. Board and lodgings, including heat and light, can be obtained in the city at prices ranging from five dollars per week upward.

A student who withdraws from the Law School in the course of an Academic year is required to give immediate notice to the Registrar of the University.

*No deduction from the full year's fees will be made in the case of a student withdrawing in the course of a year unless he gives this notice.*

NOTICE.--*Increase of tuition fee.*

*Students matriculating for the Academic year beginning October 7, 1901, and thereafter, will be charged a tuition fee of one hundred dollars per annum. Students already registered may complete the course at the tuition fixed at the time of entering the School.*

## LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 3,500 volumes, is open to the students in Law Lecture Hall from nine a. m. to ten p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The library contains the standard text-books, the West Reporter System of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

## ADMISSION TO THE BAR.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as discharging this requirement.

## PRIZES.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. Myron M. Parker, is awarded each year to the student who passes the best examination for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second editions, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the Third Year Class as shall compete for them and shall pass a successful examination.

Two prizes for excellence in debate are awarded by the Debating Society.

*Prize Awards, 1900.*

M. M. Parker Prize.....	Albert R. Stuart.
Edward Thompson Company Prize .....	Albert R. Stuart.
First Essay Prize.....	T. W. Alexander.
Second Essay Prize.....	Dwight P. Dilworth.
First Debater's Prize .....	Warren E. Greene.
Second Debater's Prize .....	John W. Langley.

Graduates of the Law School with the degree of Bachelor of Laws are admitted without examination to the School of Comparative Jurisprudence and Diplomacy for the degrees of Master of Laws, Doctor of Civil Law, and Master of Diplomacy.

For catalogues and further information, address the

SECRETARY OF THE SCHOOLS OF LAW,  
1420 H Street, Washington, D. C.

## STUDENTS OF LAW.

*Third Year Class.*

Name.	State.	Address.
Adamson, Ralph W.....	Ga....	505 2d Street.
Anderson, Dwight .....	D. C...	309 T Street.
Ballinger, John H.....	Iowa..	2231 Q Street.
Barclay, Fred H .....	Wyo ..	Hotel Stratford.
Bennett, W. E.....	Ill.....	Census Office.
Blackwood, Don P .....	W. Va.	1527 I Street.
Boyle, John, Jr.....	Pa.....	4015 8th Street.
Brothers, Maxwell R.....	Miss...	1931 K Street.
Broughton, William S.....	Ill.....	1629 Q Street.
Ph. B., University of Chicago.		
Browne, Frederick W.....	Iowa..	1514 12th Street.
Byron, Osmond F.....	Ky....	7 2d Street, N. E.
Caldwell, J. Mentor.....	W. Va.	817 15th Street.
Calfee, Robert Martin.....	Va ....	1538 I Street.
A. B., Roanoke College.		
Campbell, Edward K.....	Ohio ..	721 8th Street.
Cannon, Hal. M.....	Ind. T.	1414 Q Street.
Chambers, Lyman K .....	Ohio ..	318 Indiana Avenue.
Clark, Reed Paige.....	N. H..	1424 11th Street.
A. B., Columbia University, 1898.		
Conwell, Lewis Colfax.....	Iowa..	Office of Auditor, Post-office Department.
Cox, Joseph Winston.....	Va ....	Equity Building.
Davies, William Harbin.....	Ind ...	207 Va. Avenue, S. E.
Davis, Charles W .....	Kans..	505 2d Street.
Dodge, Arthur J.....	D. C...	1421 F Street.
Dowell, Osgood H.....	Md....	Loan & Trust Bl'd'g.
Ph. B., Yale University.		
Dryden, L. P.....	Mo....	The Astoria.
Dudley, John G.....	N. C...	The Luzon.
Duncan, George Russell.....	Ill.....	206 A Street, S. E.
Esterly, Burton Haines.....	Wis...	1115 E. Capitol Street.
B. S., University of Wisconsin.		
M. S., Columbia University.		

Name.	State.	Address.
Evans, Frank P.....	D. C...	1614 15th Street.
Ferguson, S. Colfax.....	Ky....	635 A Street, N. E.
Fullilove, Sanford C.....	La....	1931 K Street.
A. B., Centenary College.		
Gauss, Herman Charles.....	Conn..	24 6th Street, S. E.
Goldberg, Louis.....	N. Y...	1228 11th Street.
Gorden, George Warren.....	Ark ...	403 G Street.
Gordon, Allen T. C.....	D. C...	6 Cooke Place.
Greene, Wm. A.....	N. J...	1004 M Street.
Greer, Walter A.....	Mo....	43 L Street, N. E.
Gunderson, Henry A... ..	Wis...	1528 I Street.
Hearn, Wilfred.....	Ark ...	1724 S Street.
Hench, John K.....	Pa.....	139 F Street, N. E.
Herrick, Samuel.....	Pa. ...	2126 R Street.
Holloway, William Hinton....	N. C...	1638 16th Street.
Hopkins, Marcus C.....	D. C...	McGill Building.
Hopkins, R. S.....	Tenn..	814 13th Street.
Howard, Wm. W. J.....	Colo...	1830 Oregon Avenue.
Howell, Joseph William.....	Mich...	Pension Office.
Huggett, M. Charles.....	D. C...	1213 N Street.
Hume, Thomas L.....	D. C...	Ames Building.
Jones, H. E. ....	Minn..	1110 8th Street.
Kingsbury, C. Fred.....	Idaho..	1706 Q Street.
A. B., Oberlin College.		
Lewis, Sam. S.....	Pa.....	809 9th Street.
Long, Edward S.....	Ky....	817 15th Street.
Loucks, Edwin O.....	Ill....	1450 Huntington Pl.
Lucas, Frank A.....	Ky....	1101 17th Street.
Matthews, William B.....	Va ....	1463 Kenesaw Avenue.
McCormick, Howard . ....	D. C...	1731 Q Street.
Merrill, Thomas S.....	D. C...	416 T Street.
Moore, Edward S.....	Wis....	467 M Street.
Norpell, Ralph.....	Ohio ..	
Olson, Culbert Levy....	Utah..	1213 N Street.
Pagelsen, Edward N.....	Mich..	1115 I Street.
Parker, Brainard W.....	D. C...	1738 Conn. Avenue.
B. A., Yale University, 1898.		
Patterson, Joseph O.....	Mo....	218 6th Street, S. E.
Peck, Ralph L.....	Ill....	1024 17th Street.
Ph. B., University of Chicago.		

Name.	State.	Address.
Placek, Emile E.....	Nebr ..	320 2d Street, S. E.
LL. B., University of Nebraska.		
Plant, Arthur G. ....	D. C...	918 M Street.
Plumley, Walter P .....	D. C...	408 H Street.
Proctor, Alfred Waters .....	Mass ..	1431 R. I. Avenue.
Radensleben, Frank E.....	Wis....	100 B Street, N. E.
Reed, Harry D.....	Ga ....	916 23d Street.
Reid, William A.....	Va ....	933 N. Y. Avenue.
Reinohl, W. Parker. ....	D. C...	611 Q Street.
Renaud, Frank N.....	Mich..	817 15th Street.
Richardson, C. F. P.. ....	Mass ..	1812 I Street.
A. M., Columbian University, 1900.		
Richardson, H. P.....	N. Y...	1931 K Street.
Roberts, David Milton.....	Wis....	330 A Street, S. E.
B. A., University of Wisconsin.		
Schell, Augustus P.....	Ky ....	1736 F Street.
Sisson, Harry R.....	Ohio...	933 N Street.
Smith, Andrew Van.....	Ark....	903 H Street.
B. A., University of Arkansas.		
Smith, Homer A. A.....	Colo...	1633 19th Street.
Ph. B., University of Colorado.		
Smith, Robert E .....	Iowa..	1004 M Street.
Smith, William M.....	N. C...	1112 13th Street.
Soult, Will Eugene.....	Colo...	509 M Street.
Spear, Edwin Ellis.....	D. C...	1501 Park Street.
A. B., Bowdoin College, 1898.		
Stephens, Robert Allan.....	Ill....	28 Winder Building.
Talbott, James D.....	Ill....	929 Farragut Square.
Tallman, Roy Warner.....	Minn..	233 R Street, N. E.
A. B., University of Minnesota.		
Tipton, Robert.....	W. Va	1106 N. Y. Avenue.
Veeder, Charles Adelbert.....	Wis....	123 Md. Avenue, N. E.
Walter, Luther M.....	Ky ....	52 B Street, N. E.
Wingfield, Thomas J .....	Va ....	1519 T Street.
Wooster, Julian S.....	Conn..	1906 H Street.
Workman, Henry C. ....	Mich ..	Patent Office.
B. S., Columbian University.		
Yellott, R. E. L. ....	Va ....	1748 Corcoran Street.

*Second Year Class.*

Name.	State.	Address.
Allen, Joe B. ....	Tenn..	909 13th Street. LL. B., Columbian University.
Altschu, J. Henry. ....	D. C...	1334 G Street. A. B., Columbian University.
Apple, S. A. ....	Ark. ...	1106 N. Y. Avenue.
Austin, William L. ....	Miss...	1242 12th Street. Ph. B., LL. B., University of Mississippi.
Baker, Tyler A. ....	Ky ....	421 Sixth Street.
Barber, H. A. ....	N. Y...	930 I Street.
Barbour, Henry E. ....	N. Y...	943 K Street.
Barnes, J. H. ....	Kans ..	1304 W Street.
Barnett, Marcus W. ....	Idaho .	1206 K Street. A. B., University of Idaho.
Beattie, F. F. ....	S. C....	1313 H Street.
Beck, Benjamin W. ....	Tenn..	618 G Street.
Bell, David W. ....	N. C...	1331 Kenesaw Ave.
Berry, E. Benton.. ....	Md ....	2118 Connecticut Ave.
Bethune, John F. ....	Va ....	818 D Street, N. E.
Boatner, John S., Jr. . . . .	La.....	2115 California Ave. A. B., Tulane University.
Bowker, E. M. ....	N. H..	1119 K Street.
Breitenbucher, E. E. ....	Cal....	214 Delaware Ave.
Brewster, E. C. ....	Ind....	Post Office Dep't.
Burton, George W. ....	Ill....	909 13th Street.
Butts, Frank G. ....	N. Y...	918 T Street.
Cartwright, M. R. ....	Pa.....	1101 14th Street. A. B., Trinity College.
Chalice, John G. ....	D. C...	1112 N. H. Avenue.
Chase, George G. ...	Kans ..	1837 16th Street. B. S., Columbian University.
Clement, Charles W. ....	Pa.....	1454 Howard Avenue. B. S., Bucknell University, 1898.
Clendening, Thomas C. . . . .	Ill....	929 Farragut Square. Ph. B., University of Chicago.
Colbert, Richard. ....	Texas .	802 11th Street.
Collette, Clay G. ....	D. C...	1411 Howard Avenue.
Coryell, C. H. ....	Mich ..	1637 R Street.



Name.	State.	Address.
Cram, Archer P.....	Maine..	1329 M Street.
Daniel, Karl J.....	Va ....	114 Loan & Trust Bldg.
Deis, J. Homer.....	Ohio...	119 B Street, S. E.
Downs, J. L.....	Ind....	224 N. Capitol Street.
Duvall, Andrew B., Jr.....	D. C...	1831 M Street.
A. B., Princeton University.		
Evans, Maurice Preston.....	Va ....	718 15th Street.
Everett, Frank Norton.....	D. C...	1634 Riggs Place.
Ewell, Ervin E.....	Mich..	1804 S Street.
B. S., University of Michigan.		
Fitz Gerald, William S.....	Iowa ..	1416 S Street.
Fluckey, I. N.....	Ill. ....	1219 Mass. Ave., S. E.
Foster, I. C.....	Va.....	503 C Street, S. E.
Franklin, Wallace C.....	Ky....	401 4th Street.
French, Leon L. L.....	D. C...	36 I Street.
Frick, Frederick William.....	Mo....	931 N. Y. Ave.
A. B., A. M., Central Wesleyan College.		
Garner, Harry Summers.....	Pa ....	Office Light-house Bd.
Gorman, Paris A.....	D. C...	1325 Corcoran Street.
Goshert, C. S.....	Ind ...	1021 Vermont Ave.
Graves, James Harwood.....	Va ....	1463 Kenesaw Ave.
Haas, Edwin Booth.....	Va ....	1473 Kenesaw Ave.
Hammons, Dick.....	Ind ...	807 H Street.
Hartwell, De Witt T.....	Ill.....	31 C Street, N. E.
Hastings, Daniel O.....	Del....	2018 H Street.
Hattabaugh, M. Reese.....	Idaho..	210 A Street, S. E.
Heath, Thomas R.....	D. C...	528 Spruce Street.
Heess, Albert F.....	Pa. ...	1415 10th Street.
Heylmun, Clarence Gobin.....	D. C...	617 E Street.
Holden, Delos.....	N. Y...	The Lincoln.
Holzberg, B. P.....	D. C...	1011 24th Street.
Houchen, Stanley T.....	Ind ...	3421 Morgan Avenue.
Hoyt, Allen G.....	Ill.....	Treasury Department.
Ph. B., University of Chicago.		
Huidekoper, Reginald Shippen.	D. C...	1705 N. H. Ave.
A. B., Harvard University.		
Hutchinson, Jas. Edwin, Jr....	D. C...	904 Pa. Avenue, S. E.
Hyman, Harry.....	Texas..	606 9th Street.
Johnston, Rolland G.....	N. Y...	301 B Street.
Lamborn, Chas. C.....	D. C...	1510 S Street.

Name.	State.	Address.
Lilley, J. Roy.....	Pa.....	234 N. Y. Avenue.
Lockwood, Carl J.....	D. C... 21	7th Street, S. E.
Macatee, Chas. A., Jr.....	Va.....	1005 L Street.
Mathewson, Claude L.....	Mich..	419 9th Street, N. E.
Mayer, Charles D.....	Ohio ..	107 K Street.
McCabe, George P .....	Utah ..	1143 N. H. Avenue.
McLean, Hubert G.....	Mich..	2211 Pa. Avenue.
McMillan, Charles A. ....	Ky....	1918 K Street.
McNeil, W. A.....	Tenn..	1719 G Street.
Morris, Claude F.....	Mo....	1748 Corcoran Street.
Morris, William L.....	Mass...	Patent Office.
Mothershead, James F. H.....	D. C... 1322	6th Street.
Nelson, George B .....	Wis....	51 D Street, S. E.
B. L., University of Wisconsin.		
Nelson, George Egborne.....	Va ....	929 29th Street.
Norris, James L., Jr.....	D. C... 331	C Street.
A. B., Princeton University.		
Oberlin, Paca.....	Va ....	1817 K Street.
Oberlin, Stuart E.....	Va ....	1817 K Street.
Pack, Harold J.....	Pa.....	2139 L Street.
Pearson, Perry S.....	Ga.....	1008 M Street.
A. B., Mercer University.		
A. M., Columbia University.		
Peelle, Stanton C. ....	D. C... The	Concord.
A. B., Columbia University.		
Pines, George S.....	Ill.....	Treasury Department.
Pitcher, E. H. ....	Ill.....	922 N. C. Ave., S. E.
Radelfinger, Frank Gustave....	Cal....	1431 Chapin Street.
B. S., University of California.		
Rawlings, Richard Galt.....	D. C... 1505	Pa. Avenue.
Reinmüller, G. William.....	Minn..	Library of Congress.
Rhodes, John D.....	Ohio ..	321 H Street, N. E.
Rogers, Clyde L.....	N. Y... 471	H Street.
A. B., Alfred University.		
Sands, Herbert R.....	Ill.....	1118 11th Street.
Screven, Edward W., Jr.....	S. C... 1	Grant Place.
A. B., South Carolina College.		
Senft, Christian.....	Pa.....	— —
Shadle, John T.....	Ill.....	711 11th Street, N. E.
Shank, Horace Cooper.....	Ohio ..	511 L Street.

Name.	State.	Address.
Simpson, Lacey M. ....	Kans..	724 9th Street.
Stewart, Thomas P. ....	Kans..	925 H Street.
A. B., Baker University, 1899.		
Swallow, H. A. ....	Ill....	309 Florida Avenue.
A. B., Brown University.		
Swan, A. R. ....	D. C...	3558 13th Street.
Swift, G. R. ....	Va....	1528 I Street.
A. B., Fredericksburg College.		
Taggart, E. H. ....	Ohio ..	1604 15th Street.
Talley, Haskell B. ....	Tenn..	The Florence.
LL. B., Vanderbilt University.		
Teufel, Herman A. ....	Pa....	1213 Q Street.
Thompson, Ward E. ....	Ill....	Union Building.
Todd, G. Carroll. ....	Va....	3618 13th Street.
B. S., Columbian University.		
Tower, Jr., Edwin B. H. ....	N. Y...	1219 Princeton Street.
Trickey, Corridon H. ....	D. C...	1907 L Street.
Tulloch, Henry V. ....	D. C...	416 5th Street.
A. B., Princeton University.		
Vass, George O. ....	Idaho .	1316 L Street.
Vincent, Burtran W. ....	D. C...	1912 G Street.
Webb, William P. ....	Va....	805 10th Street.
White, Wallace H., Jr. ....	Maine.	1402 L Street.
A. B., Bowdoin College, 1899.		
Williams, Robert L. ....	Colo'...	1313 T Street.
Wilson, Sidney S. ....	Mo....	904 B Street, S. W.
Wilson, Thomas B. ....	Wash..	221 A Street, N. E.
Yauch, Charles F. ....	Ohio ..	925 N Street.
Youmans, George Faust. ....	Ark....	126 E Street.
B. S., University of Missouri.		

*First Year Class.*

Name.	State.	Address.
Adams, Benjamin F. ....	N. H..	1210 Mass. Avenue.
A. B., Dartmouth College.		
Adams, William Frazier. ....	Wis...	400 A Street, S. E.
A. B., University of Wisconsin.		
Anderson, Edward D. ....	D. C...	309 T Street.
Atkinson, Joseph R. ....	N. C...	1101 G Street.

Name.	State.	Address.
Averitt, R. E. L.....	Ky....	811 Tenth Street.
Baird, M. B.....	Ind....	621 New Jersey Ave.
Baley, Louis J.....	Tenn..	Takoma Park.
Barnes, James L.....	Kans..	1304 W Street.
Barnhart, Joseph H.....	Ill....	1234 I Street.
Barnum, Zenus F.....	Md....	816 15th Street.
Barrows, William J.....	Mo....	404 Second Street.
Basinger, Thomas Garnett.....	Ga....	2009 I Street.
Berry, Albert E.....	W. Va.	1416 F Street.
Berry, G. A.....	D. C...	1253 G Street, S. E.
Boreing, John Randall.....	Ky....	The Colonial.
Bourne, Martin R.....	Minn..	512 B Street, N. E.
Bowne, William R.....	Pa....	935 H Street.
Boyd, Daniel .....	Ind....	Census Office.
Bradley, Henry M.....	S. C....	1007 Mass. Ave., N. E.
Brady, Charles Eugene.....	Wis....	808 12th Street.
Brann, Berlin Guy.....	D. C...	1435 L Street.
Breckinridge, L. S.....	D. C...	1314 Connecticut Ave.
B. A., Princeton University.		

Brewer, John.....	Md ...	631 Pa. Avenue.
Britt, James Monroe.....	N. C...	1206 G Street.
Britton, Herbert Irving.....	N. C...	1009 13th Street.
Brooks, Stephen Allen.....	D. C...	1219 Princeton Street.
Broun, Frank Dana.....	N. Y...	1329 M Street.
Brown, Arthur H.....	Mass..	1920 H Street.
B. S., Massachusetts Institute of Technology.		

Brown, Will Walton.....	Tenn..	2014 Hillyer Place.
Browne, William R.....	Pa....	935 H Street.
Bulkley, Robert C.....	Wis....	1340 I Street.
Burton, Ishmael .....	W. Va.	923 Fourth Street.
Calhoun, Patrick N.....	S. C...	1019 P Street.
Candler, William D.....	Ga ....	417 Sixth Street.
Cassidy, James O'C.....	S. C...	— —

A. B., Newberry College.

Catchings, Roscoe Mark.....	D. C...	1925 G Street.
Chesley, Harry Wolford.....	D. C...	1737 17th Street.
Churchill, Arthur M.....	Wis ...	632 E. Capitol Street.
Clark, C. T.....	D. C...	1485 Columbia Road.
Clark, Edward Tracy.....	Mass ..	4th and College Sts.

A. B., Amherst College.

Name.	State.	Address.
Clark, Frederick F.....	Iowa..	612 F Street.
Clarkson, Edgar J. H.....	D. C.,	1235 11th Street.
Clendenin, Jacob F.....	N. C..	14 7th Street, S. E.
Clift, Thomas Reed.....	D. C..	1434 Chapin Street.
Coburn, George W.....	Wis...	133 13th Street, N. E.
Coon, Byron McP.....	Md....	— —
Copeland, Hilbert Perry.....	Ohio...	1102 9th Street.
Cowhick, O. Glenn.....	Wyo...	720 10th Street.
Crain, William M.....	Ill.....	1142 7th Street.
Cram, Charles Maurice.....	Maine.	The Gloucester.
A. B., Leland Stanford, Jr., University.		
Culver, George Bliss.....	Cal....	1718 Q Street.
Cuthbert, J. T.....	N. Y...	723 18th Street.
Davis, Arthur L.....	Ill.....	1105 K Street.
Davis, William Hammatt.....	D. C...	McGill Building.
Davison, F. L.....	N. J...	1624 15th Street.
Dawson, Edward M., Jr.....	D. C...	— —
De Forest, S. Tillman.....	Ind ...	209 E. Capitol Street.
De Grange, McQuilkin.....	Md....	617 H Street.
A. B., Johns Hopkins University, 1900.		
Denny, Walter McKennon, Jr..	Miss...	1010 H Street.
De Witt, Irvin A.....	Pa.....	505 L Street.
A. B., Bucknell University.		
Dial, J. Ashley.....	Texas .	417 6th Street.
Dobbs, Charles L.....	Miss...	812 D Street, N. E.
Dobson, Clarence Eldred.....	S. C...	1226 12th Street.
A. B., Wofford College.		
Dow, Wm. J.....	Mo....	1211 N. J. Avenue.
Doxen, George A.....	Md....	1113 M Street.
Doyal, Paul H.....	Ga ....	222 3rd Street.
A. B., University of Georgia, 1899.		
Eichelberger, Fred B.....	Ohio ..	1119 K Street.
Ellison, William B.....	Tenn..	415 6th Street.
A. B., U. S. Grant University.		
Emery, Frank D.....	D. C...	1325 Columbia Road.
Engel, Richard D.....	Mass ..	1634 3d Street.
English, Walter C.....	D. C...	2907 P Street.
Erly, Alfred A.....	D. C...	100 11th Street, S. E.
Ernst, Delmar E.....	Ohio ..	809 12th Street.

Name.	State.	Address.
Evans, Jess Donald .....	Pa.....	1102 5th Street.
B. S., Bucknell University.		
Farnsworth, Jay Palmer, Jr....	Kans..	903 N. J. Avenue.
Fitch, James Monroe.....	Ohio ..	1817 16th Street.
A. B., Oberlin College.		
Fletcher, Henry Frederick.....	Conn..	214 Del. Ave., N. E.
Folk, William Humphrey.....	Ohio ..	Astoria Flats.
B. S., Princeton University, 1900.		
Ford, E. W.....	N. Y..	608 Mass. Ave., N. E.
Frad, William J.....	Iowa ..	120 C Street.
A. B., Cornell College.		
Francis, John, Jr.....	Kans..	918 I Street.
Franklin, Blake.....	Ill.....	111 Md. Ave., N. E.
Frost, John W.....	Ill.....	614 19th Street.
Frost, P. D.....	Iowa..	1218 F Street.
Fulham, H. McK.....	Miss ..	1106 N. Y. Avenue.
Fullwood, John I .....	Ga ....	426 Q Street.
Garber, John H.....	Iowa..	916 N. C. Avenue.
Gardner, Augustus V., Jr.....	Minn..	1409 20th Street.
Gay, Richard H.....	Iowa ..	Senate Post-office.
Gerson, L. J.....	Pa.. ..	Wyatt Building.
Glover, John McC.....	Pa.....	1716 9th Street.
Graham, R. Hunter.....	W. Va.	1464 R. I. Avenue.
Grant, William J.....	Pa.....	414 10th St., S. W.
Graves, E. C.....	D. C...	927 Mass. Avenue.
Greene, Foster Regnier.....	Mass...	1829 G Street.
A. B., Harvard University, 1900.		
Greenlaw, Ralph M.....	N. H..	1402 L Street.
Greer, Albert Lorenzo.....	Ga ....	321 N. J. Ave., S. E.
Griffin, Edward A, Jr.....	D. C...	812 D Street, N. E.
A. B., Wake Forest College.		
Grunwell, Charles V.....	D. C...	1515 30th Street.
Grimes, Junius D.....	N. C...	1205 N Street.
A. B., University of North Carolina.		
Guy, Benjamin F.....	D. C...	2110 R Street.
Guyton, Thomas Percy.....	Miss...	1330 N. Y. Avenue.
Hahn, W. Perry.....	D. C...	1323 Corcoran Street
Haines, Horace B.....	Pa.....	736 12th Street.
Hall, Morton Greer.....	Pa ....	8 B Street, N. E.
Hamlin, Ray F.....	D. C...	1530 Prospect Street.

Name.	State.	Address.
Hammond, Lawrence K.....	Pa ....	310 Indiana Avenue.
Harbaugh, James William.....	Ohio ..	1828 G Street.
Harding, George.....	Mich..	1437 L Street.
Hartley, Eugene F.....	N. C... 236 N. J. Avenue.	
Ph. B., University of North Carolina.		
Hawley, J. Bradford.....	Idaho..	1206 K Street.
Hayden, Arthur D.....	D. C... 1734 Conn. Avenue.	
Hearin, Jesse B.....	Ala....	1019 P Street.
Helm, John, Jr.....	D. C... Bu. of Nav., Navy Dep.	
Henkle, Rae D.....	Ohio... 233 1st Street.	
Herzinger, Chas. William.....	Cal.... 810 N. J. Avenue.	
Hills, Ralph W.....	Ohio... 1342 13th Street.	
Hinton, B. E.....	Ark ... 1112 H Street.	
Holsopple, Guy.....	Pa.....	
Hoover, Dickerson N.....	D. C... 413 C Street, S. E.	
Horstmann, Ferdinand Oden..	Pa..... 1710 R. I. Avenue.	
Houston, David N.....	D. C... 1411 10th Street.	
Ph. B., Dickinson College.		
Hoyl, James Bascom.....	Ga .... 1 Grant Place.	
Ph. B., Emory College.		
Hulfish, Paul B.....	Va .... Alexandria, Va.	
Jarvis, Raymond P.....	N. C... 608 E. Capitol Street.	
B. L., University of North Carolina.		
Jenks, Royal G.....	La .... 1122 16th Street.	
Jesse, Chas. T.....	Va .... 326 12th Street, S. E.	
Johns, J. Luther.....	D. C... 935 G Street, S. W.	
B. S., Virginia Polytechnic Institute.		
Josephsson, Axel .....	Ill ..... Census Office.	
Kalver, Jacob.....	Ohio .. Treasury Department.	
Kean, John W.....	Iowa .. 925 H Street.	
Keleher, James P.....	D. C... 409 A Street, S. E.	
Kellogg, Almon C.....	D. C... 906 Mass. Avenue.	
Kempner, Louis.....	N. Y... 3515 Holmead Ave.	
Keyser, Paul V.....	D. C... 208 F Street.	
Kirk, H. D. ....	Va .... Alexandria, Va.	
Knapp, D. A.....	D. C... 1122 12th Street, N. E.	
Kreps, Chas. A .....	W. Va.. Library of Congress.	
A. B., Marietta College.		
Kress, Chas. McK.....	Pa..... 234 N. J. Avenue.	
Kuck, Julius A.....	N. Y... 1127 11th Street.	

Name.	State.	Address.
Langley, Ernest.....	Ky....	420 6th Street.
Larash, William Leonard.....	Pa.....	211 F St., N. E.
Leavitt, Leon Brooks.....	Maine.	1329 M Street.
A. B., Bowdoin College.		
Lee, A. J.....	Ill.....	1418 L Street.
Leonard, James H.....	Va....	West Falls Church, Va.
Lewis, Benjamin A.....	N. Y...	1811 3d Street, N. E.
Lewis, John O.....	Ark....	121 E Street, N. E.
Linkins, William Henry.....	D. C...	1923 G Street.
Little, Warren T.....	Ohio ..	519 E. Capitol Street.
Littlepage, Thomas P.....	Ind....	Census Office.
London, Henry Manger.....	N. C..	1417 20th Street.
A. B., University of North Carolina.		
Loyd, E. H.....	N. Y...	45 Bates Street.
A. B., Colgate University, 1899.		
Mack, James W.....	Pa.....	726 12th Street.
Mackrille, William R.....	D. C...	Census Office.
Main, Charles W.....	Md....	1617 17th Street.
Mapes, Thomas A.....	Mont..	103 11th Street, S. E.
Martin, Harold H.....	Kans..	730 I Street.
Mathews, J. E.....	D. C...	602 7th Street, N. E.
Matthews, Dan.....	W. Va..	Census Office.
Mays, Benjamin F.....	S. C...	812 D Street, N. E.
McCall, Oscar Edmond.....	Ohio ..	210 N. J. Avenue.
McCarteney, Hartwell Cragin..	D. C...	3123 Dumbarton Ave.
A. B., Lafayette College.		
McCarty, Harry Clinton.....	Maine.	1400 L Street.
A. B., Bowdoin College.		
McClelland, Hunter Hawthorne	Ala....	920 N. Y. Avenue.
McFarland, Francis W.....	Mont..	1604 Vermont Ave.
McLaughlin, James A.....	Colo...	404 M Street.
McLean, J. H., Jr.....	Texas..	Brookland, D. C.
A. B., Southwestern University.		
McLeod, E. E.....	Miss...	1617 8th Street.
Melton, C. P.....	Ind....	1529 Corcoran Street.
Milans, Calvin T.....	D. C...	1232 N. H. Avenue.
Mitchell, Phelps.....	Mo....	210 1st Street, N. E.
Moore, Harlan.....	Ky....	1519 R. I. Avenue.
A. B., Cornell University.		
Moore, Milton D.....	S. C....	100 B Street, N. E.



Name.	State.	Address.
Moorhees, Charles Francis.....	D. C...	17th and Q Streets.
Musgrave, Cebe.....	Texas..	1107 G Street.
Muskat, Carl.....	Wis....	330 A Street, S. E.
Myers, A. P.....	Kans..	925 H Street.
A. B., Baker University.		
Needham, Frank Reed.....	D. C...	1428 Mass. Avenue.
Nelson, Albert L.....	Minn..	1616 15th Street.
Nolan, Joe W.....	Ky....	519 6th Street.
Nowak, Leo J.....	N. Y...	312 C Street.
O'Bryon, George E.....	N. Y...	1813 F Street.
Osgood, Roy C.....	Mass ..	710 3d Street, S. E.
Pace, John A.....	Texas..	1012 N Street.
Page, George Edgar.....	Wis....	123 4th Street, S. E.
Perry, Frank H.....	Ala....	417 6th Street.
Phillips, Edson.....	N. Y...	3526 Morgan Avenue.
Pierce, Frank S.....	N. J...	2030 I Street.
Plummer, Frank L.....	Minn..	409 G Street.
Poe, Charles Kennedy.....	D. C...	2034 Hillyer Place.
Potter, Van Albert.....	D. C...	320 B Street, S. E.
Pratt, Walter Scott, Jr.....	D. C...	9 Iowa Circle.
Price, Elbert R.....	S. C...	228 20th Street, N. E.
Prindle, George Brown.....	D. C...	The Portland.
Randall, William G.....	Cal....	Census Bureau.
Reed, Clyde.....	Pa.....	1206 T Street.
Reider, Wm. M.....	N. J...	1234 I Street.
Rich, Ben. L.....	Idaho..	1143 N. H. Avenue.
Riddle, J. Whitford, Jr.....	Pa.....	1521 I Street.
B. S., B. A., University of Pennsylvania.		
Rittenour, Richard Danner....	Va'....	1300 Pa. Avenue.
Robb, John F.....	Kans..	827 8th Street, N. E.
Roberts, C. M.....	Md....	918 23d Street.
Robertson, George E.....	N. H..	1210 Mass. Avenue.
Rolle, August H. O.....	Minn..	715 12th Street.
Rowell, Ira Wayland.....	Wis....	325 E. Capitol Street.
Sabin, E. M.....	Wis....	404 M Street.
Sanderson, Charles R.....	D. C...	638 A Street, S. E.
Service, Fred A.....	Pa.....	203 C Street.
Shafer, Benjamin E.....	Ohio...	1302 L Street.
Shepherd, Harry W.....	Md'....	1418 F Street.

Name.	State.	Address.
Shores, Robert J.....	Mont..	The Bancroft.
Short, W. O.....	Del....	807 H Street.
Simms, Harold H.....	D. C...	803 T Street.
Simpson, G. Robbins.....	Va....	Alexandria, Va.
Smith, J. Speed, Jr.....	Ky....	1814 K Street.
B. L., Central University.		
Smith, Ralph L.....	Pa.....	Treasury Dep't.
A. B., Gettysburg College.		
Snell, Arthur V.....	N. Y..	1521 I Street.
Ph. B., University of Chicago.		
Spees, James T.....	Pa.....	Census Office.
Spirk, Charles A.....	Iowa ..	The Cairo.
Steckman, Fred W.....	Mo....	1221 Princeton Street.
Steely, Isaac N.....	Ky....	924 N. Y. Avenue.
Stephan, D. E.....	D. C...	Gordon Hotel.
Stevens, S. Sidney Breese.....	Ill....	The Maury.
Stivers, Orion L.....	Ind....	1334 8th Street.
A. B., Miami University.		
Sumner, Charles Johnstone....	Wis....	1311 Columbia Road.
Taylor, J. Waldo.....	Ohio...	622 5th Street.
Terrell, George Holland.....	Texas..	1107 G Street.
Thomas, Henry G.....	Va.....	806 6th Street.
Thomas, John C.....	N. Y...	647 E. Capitol Street.
Thompson, Albert L.....	Iowa..	143 N. C. Ave., S. E.
Thompson, Henry Rice.....	D. C...	2023 Hillyer Place.
Tibbetts, Milton.....	Maine..	1239 B Street, S. E.
Tongue, Thomas H., Jr.....	Oreg...	House of Reps.
B. L., Pacific University.		
Toombs, William Ray.....	Miss...	111 5th Street, N. E.
A. B., Georgetown College.		
Tullis, J. Roy.....	Ohio...	427 G Street.
Underwood, Lineas Dott. ....	Ind....	Patent Office.
B. S., Columbian University, 1899.		
Van Alstyne, H. K.....	N. Y...	The Cairo.
Van Hoeson, Finley Morse....	N. Y...	
Vaughan, Fred A.....	Ky....	426 6th Street.
Voorhees, Charles Francis.....	D. C...	1771 Madison Street.
Wallace, Leslie E.....	Kans..	Senate Annex.
Waterman, Jason.....	Mich ..	59 Q Street, N. E.
Watson, J. T.....	Vt.....	1302 L Street.

Name.	State.	Address.
Whitcomb, Frank S.....	Ohio...	218 N. J. Avenue.
White, E. Russell.....	Va....	1317 M Street.
Whiteside, William E. ....	W. Va.	929 K Street.
Whitney, Carl E.....	N. Y...	736 3d Street.
Wiegand, Gustaf W.....	Minn..	900 K Street.
Wilson, Francis C.....	Mass...	1322 Wallach Place.
Wilson, Louis Clarence.....	D. C...	1324 S Street.
Winders, Charles H.....	Ill....	707 Mass. Ave., N. E.
Wing, Artemas W.....	Maine.	
A. B., Bates College.		
Wood, C. H.....	Wis...	1203 F Street.
Wynn, T. Duncan.....	Ark....	1106 N. Y. Avenue.
Yelton, Mart A.....	Ky....	1529 Corcoran Street.

*Special Students.*

Name.	State.	Address.
Brahany, Thomas W.....	Wis....	125 B Street, S. E.
Brandt, Ralph V.....	Ind....	225 O Street.
Franklin, Wirt.....	Ill....	111 Md. Ave., N. E.
Whittlesey, George N.....	Conn..	1421 K Street.
B. A., Yale University.		
Wilhelm, Adam A.....	N. C...	215 1st Street.

*Students in Patent Law.*

Name.	State.	Address.
Brockett, Bluford W.....	Md....	3425 Holmead Ave.
LL. B., LL. M., Columbian University.		
Catlett, Ulysses Schuyler.....	Tenn..	1817 K Street.
LL. B., LL. M., Columbian University.		
Chapman, Charles McC.....	N. Y...	725 19th Street.
LL. B., LL. M., Columbian University.		
Collins, Edward, Jr.....	Mass...	2126 R Street.
Coombs, Howard A.....	Ill....	1115 O Street.
B. S., Worcester Polytechnic Institute, 1893.		
LL. B., Columbian University, 1899.		
Coope, Harry.....	Ohio ..	706 11th Street.
LL. B., LL. M., National University, Ohio.		

Name.	State.	Address.
Edwards, O. Ellery, Jr.....	N. Y...	1906 H Street.
B. S., LL. B., LL. M., Columbian University.		
Foster, Bertram G.....	N. Y...	932 N. C. Avenue, S. E.
Foster, S. W.....	D. C...	19 12th Street, N. E.
LL. B., LL. M., National University.		
May, George T., Jr.....	D. C...	2119 F Street.
LL. B., Columbian University.		
LL. B., National University.		
Ogden, Herbert G., Jr.....	D. C...	1610 Riggs Place.
M. E., Cornell University.		
LL. B., Columbian University.		
LL. M., Georgetown University.		
Owen, Charles W.....	Mich ..	1013 I Street.
LL. B., LL. M., Columbian University.		
Poultney, William W.....	Ohio...	3409 Holmead Ave.
A. M., P. H. M., M. C. E., Ohio University.		
LL. B., LL. M., National University.		
LL. M., Columbian University.		
Sheldon, Hervey.....	Ill.....	314 E Street.
LL. B., Northwestern University.		
Stauffer, H. E.....	Del....	2407 M Street.
LL. B., LL. M., Columbian University.		
Telford, Erastus Dalson.....	Ill.....	1353 Kenesaw Ave.
B. S., McKendree College.		
LL. B., LL. M., Georgetown University.		
Wells, Albert Coulter.....	Pa ....	18 S Street.
LL. B., LL. M., Columbian University.		
Wright, Herbert.....	Pa ....	1116 T Street.
M. E., Lehigh University.		
LL. B., LL. M., Columbian University.		

*Recapitulation.*

Third or Senior Year.....	93
Second or Middle Year.....	117
First or Junior Year.....	255
Students in Patent Law.....	18
Special students in law.....	5
Total.....	488

# THE SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.

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## THE GRADUATE COURSE.

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### BOARD OF VISITORS.

HON. MELVILLE W. FULLER, LL. D.,  
Chief Justice of the United States.

HON. JOHN HAY, LL. D.,  
Secretary of State.

HON. LYMAN J. GAGE, LL. D.,  
Secretary of the Treasury.

HON. HENRY B. BROWN, LL. D.,  
Associate Justice of the Supreme Court of the United States.

HON. CUSHMAN K. DAVIS, LL. D.,\*  
United States Senator from Minnesota.

HON. CHAUNCEY M. DEPEW, LL. D.,  
United States Senator from New York.

HON. JOHN F. DILLON, LL. D.,  
Formerly Judge of the Circuit Court of the United States.

HON. WILLIAM LINDSAY, LL. D.,  
United States Senator from Kentucky.

HON. FRANK A. VANDERLIP,  
Assistant Secretary of the Treasury.

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\* Deceased, November 27, 1900.

## THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D

*President pro tempore.*

CHARLES W. NEEDHAM, LL. M.,

*Dean,*

The Common Law; Transportation and Interstate Commerce  
Law.

HON. JOHN M. HARLAN, LL. D.

(Associate Justice of the Supreme Court of the United States),  
Constitutional Law, Comparative Constitutional Law, and  
Conflict of Laws.

HON. DAVID J. BREWER, LL. D.

(Associate Justice of the Supreme Court of the United States),  
International Law.

HON. JOHN W. FOSTER, LL. D.

(Ex-Secretary of State),

Diplomacy and Treaties of the United States; Duties of  
Ambassadors, Ministers, and Consuls; Boards of  
Arbitration.

HON. DAVID J. HILL, LL. D.

(Assistant Secretary of State),

European Diplomacy and Treaties.

HON. WILLIAM WIRT HOWE, LL. D.

(of the New Orleans Bar),

Ancient Law, Roman Law, Mediæval and Modern Civil Law.

JOSEPH FRENCH JOHNSON, A. B.

(of the University of Pennsylvania),

Money, Credits, and Foreign Exchange.

HON. MARTIN A. KNAPP, LL. D.

(Chairman Interstate Commerce Commission),  
Interstate Commerce Law.

**HON. WILLIAM P. WILSON, Sc. D.**  
(Director of the Philadelphia Commercial Museum),  
International Trade and Commercial Geography.

**HON. CARROLL D. WRIGHT, LL. D.**  
(Commissioner of the Department of Labor),  
Statistics and Social Economics.

**CHARLES C. SWISHER, Ph. D.,**  
Comparative Politics and Political Geography.

**JOHN W. HOLCOMBE, M. Dip.,**  
Assistant Professor, Political Science.

**CHARLES RAY DEAN, M. Dip.,**  
Assistant Professor, European Diplomacy.

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**SPECIAL LECTURES.**

**HON. LYMAN J. GAGE, LL. D.**  
(Secretary of the Treasury),  
Public Finance, Money, and Credits.

**EDWARD M. GALLAUDET, Ph. D., LL. D.**  
(President and Professor of Moral and Political Science,  
Gallaudet College),  
The Treatment of Enemy Property on the Sea.

**EDWARD H. STROBEL, LL. B.**  
(of Harvard University),  
Jurisprudence of France and of Spain.

**N. W. HOYLES, Q. C.**  
(Principal of Toronto Law School),  
Jurisprudence of Canada.

**FRANK A. VANDERLIP**  
(Assistant Secretary of the Treasury),  
Administrative Law.

## THE COLUMBIAN UNIVERSITY.

GUY CARLETON LEE, PH. D.  
(Johns Hopkins University),  
Comparative Politics.

---

CHANNING RUDD, LL. B.  
(of the Washington Bar),  
Librarian.

---

J. HENRY ALTSCHU, A. B.,  
Assistant Librarian.

---

CHARLES DRAKE WESTCOTT, LL. M.,  
Secrètary of the Schools of Law.

Special lectures upon the jurisprudence of England and her Colonies, Germany, Austro-Hungary, Italy, and Colonial Law will be announced during the year.

A course of lectures upon the Organization of the Diplomatic Service of Other Nations, the History of International Conventions, and the Lives of Great Men will be delivered by some of the Diplomatic Corps resident in Washington and by other distinguished public men.

## ASSIGNMENTS.

*First Year.*

CONSTITUTIONAL LAW OF THE UNITED STATES. One hour. \*  
PROFESSOR HARLAN. *Story on the Constitution.*

COMPARATIVE CONSTITUTIONAL LAW. One hour, one-half year.  
PROFESSOR HARLAN. †

CONFLICT OF LAWS. One hour, one-half year. PROFESSOR  
HARLAN. *Story.*

INTERNATIONAL LAW. One hour. PROFESSOR BREWER. *Hall.*

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\* Unless otherwise stated, hours per week throughout the year.

† No text-book.



ROMAN LAW. One hour, one-half year. PROFESSOR HOWE.  
*Studies in the Civil Law.* Howe.

TRANSPORTATION AND INTERSTATE COMMERCE LAW. Two hours.  
PROFESSOR NEEDHAM.\*

HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.  
One hour, one-half year. PROFESSOR FOSTER. *A Century of  
American Diplomacy.* Foster.

STATISTICS AND SOCIAL ECONOMICS. One hour. PROFESSOR  
WRIGHT. *Practical Sociology.* Wright.

COMPARATIVE POLITICS AND POLITICAL GEOGRAPHY. One hour.  
PROFESSOR SWISHER.\*

ADMINISTRATIVE LAW.\* One hour, one-half year.

LATIN, FRENCH, GERMAN, AND SPANISH. (Special.)

Five hours each week will be devoted to class discussions and  
conferences, conducted by professors and instructors.

*Second Year.*

PRACTICE OF DIPLOMACY, ORGANIZATION OF THE STATE DEPART-  
MENT, DUTIES OF AMBASSADORS, MINISTERS, AND CONSULS, AND  
INTERNATIONAL ARBITRATION.\* One hour. PROFESSOR FOSTER.

HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.\* One hour.  
PROFESSOR HILL.

LAWS OF ANCIENT NATIONS.\* One hour.

- (a) History and General Principles of the Laws of India,  
Egypt, Palestine, and Greece. PROFESSOR HOWE.
- (b) History and General Principles of Roman Law to and  
including the time of Justinian. PROFESSOR HOWE.
- (c) A General View of the Law in Europe during the Mid-  
dle Ages. PROFESSOR HOWE.
- (d) The Extension of the Roman Law into some of the  
Modern States. PROFESSOR HOWE.

THE COMMON LAW, ITS HISTORY AND EXTENSION INTO SOME OF  
THE MODERN STATES. One hour. PROFESSOR NEEDHAM.

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\* No text-book.

JURISPRUDENCE OF FRANCE AND SPAIN. PROFESSOR STROBEL.

JURISPRUDENCE OF CANADA. PROFESSOR HOYLES.

INTERNATIONAL LAW.\* One hour, one-half year. PROFESSOR BREWER.

INTERSTATE COMMERCE LAW. One hour, one-half year. PROFESSOR KNAPP.

INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.\* One hour, one-half year. PROFESSOR WILSON.

FINANCE.\* One hour. PROFESSOR JOHNSON.

COMPARATIVE POLITICS. One hour. PROFESSOR HOLCOMBE.  
(Special Lectures.)

FINANCE. Special lectures by Hon. LYMAN J. GAGE.

LATIN, FRENCH, GERMAN, AND SPANISH. (Special.)

Special Lectures, Class Discussions and Conferences, five hours.

The class-room work for each year will occupy about ten hours—two hours every week day except Saturday.

## COURSES OF INSTRUCTION.

LAW SECTION.—Leading to the degree of Master of Laws.  
One year.

### 1. REGULAR COURSE.

Constitutional Law of the United States.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Comparative Politics.

### 2. ELECTIVE COURSE.

Comparative Constitutional Law.

Administrative Law.

Colonial Law.

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\* No text-book.

**3. CONFERENCES FOR REVIEW AND EXAMINATION.**

Constitutional Law.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Comparative Politics.

**NOTE.**—Students in this course may take the Moot-Court work in the Law School without extra charge.

**LAW SECTION.**—Leading to the degree of Doctor of Civil Law. Two years.

**1. REGULAR COURSE, FIRST YEAR.**

Constitutional Law of the United States.

Comparative Constitutional Law.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Comparative Politics.

Political Geography.

Colonial Law.

Latin and French, German or Spanish (special).

**2. ELECTIVE COURSE.**

History of Diplomacy of the United States.

History of Treaties to which the United States has been a party.

Administrative Law.

Statistics and Social Economics.

**3. CONFERENCES FOR REVIEW AND EXAMINATION.**

Constitutional Law of the United States.

Conflict of Laws.

International Law.

Roman Law.

Transportation and Interstate Commerce Law.

Comparative Politics and Political Geography.

**4. REGULAR COURSE, SECOND YEAR.**

Comparative Politics.

Comparative Jurisprudence.

Laws of India, Egypt, Palestine, and Greece.

Roman Law to and including the time of Justinian.

General View of the Law in Europe during the Middle Ages.

The extension of the Roman Law into some of the Modern States.

Common Law of England; its history and extension into some of the Modern States.

Jurisprudence of England and her Colonies; France, Germany, Austro-Hungary, Italy, and Spain.

International Law.

Latin and French, German or Spanish (special).

**5. ELECTIVE COURSE.**

History of Diplomacy of the United States.

International Arbitration.

History of European Diplomacy and Treaties.

International Trade.

Finance.

**6. CONFERENCES FOR REVIEW AND EXAMINATION.**

Comparative Politics.

Comparative Jurisprudence.

International Law.

**DIPLOMATIC SECTION.**—Leading to the degree of Master of Diplomacy. Two years.

**1. REGULAR COURSE, FIRST YEAR.**

Comparative Politics.

Political Geography.

History of Diplomacy of the United States.

History of Treaties to which the United States has been a Party.

International Law.

Commercial Geography.

Statistics and Social Economics.

French, German, or Spanish (special).

**2. ELECTIVE COURSE.**

Constitutional Law of the United States.  
Comparative Constitutional Law.  
Conflict of Laws.  
Administrative Law.  
Colonial Law.

**3. CONFERENCES FOR REVIEW AND EXAMINATION.**

Comparative Politics and Political Geography.  
History of Diplomacy of the United States.  
History of Treaties to which the United States has  
been a Party.  
International Law.  
Commercial Geography.  
Statistics and Social Economics.

**4. REGULAR COURSE, SECOND YEAR.**

Comparative Politics.  
History of Diplomacy of the United States.  
Organization of the State Department.  
Duties of Ambassadors, Ministers, and Consuls.  
International Arbitration.  
History of European Diplomacy and Treaties.  
European Diplomats.  
International Law.  
International Trade and Commercial Geography.  
Finance.  
French, German, or Spanish (special).

**5. ELECTIVE COURSE.**

Laws of Ancient Nations.  
Common Law of England.  
Course in Comparative Jurisprudence.

**6. CONFERENCE FOR REVIEW AND EXAMINATION.**

Comparative Politics.  
History of Diplomacy of the United States.  
Organization of the State Department.  
Duties of Ambassadors, Ministers, and Consuls.  
International Arbitration.  
History of European Diplomacy and Treaties.  
International Law.  
International Trade and Commercial Geography.  
Finance.

## METHOD OF INSTRUCTION.

Professors conduct the study of the subject to which they are assigned by lectures, required courses of reading, and class discussions and conferences. Where a subject is divided into different branches or subdivisions, special lecturers are introduced who are specially qualified to speak upon the subject assigned.

All subjects are studied historically and comparatively and with a view to arriving at the present conditions and state of the law.

Class discussions and conferences follow each lecture, and students are encouraged to make original research and report their work to the class.

**COMPARATIVE JURISPRUDENCE.** This course begins with the study of the laws of primitive people, the laws of India, Egypt, Palestine, and Greece. Following this is a study of the Roman Law as derived from Greece and developed in Rome itself, down to the time of Justinian; then a general view of the law in Europe during the Middle Ages and tracing the Roman Law to the modern nations in which it now prevails. The rise of the Common Law and its extension to the nations in which it prevails are carefully considered, and then the jurisprudence of the great modern States is studied, giving to each a special lecture course, with class discussions. The relations of England to her colonial empire, and the federal system existing in Canada receive special attention. All statutory laws which have a bearing upon the exercise of national power and which affect the relations of nations with each other, as well as the fundamental law, are studied in each course.

This subject is under the general supervision of the Dean, and lecturers are appointed upon the jurisprudence of each nation.

**COMPARATIVE CONSTITUTIONAL LAW.** This subject is studied by first considering in a thorough and comprehensive manner the subjects and the scope of the Constitution of the United States; next taking the constitutions of other nations, studying their sources and subjects, comparing their provisions in the light of judicial interpretation by the highest courts of the country with the Constitution of the United States as construed

by the Supreme Court of the United States, giving the student a thorough knowledge of the statement of constitutional law in various countries, the scope of each, the subjects treated, the judicial construction, and the points in which our Constitution differs from that of other nations.

**INTERNATIONAL LAW.** This subject is studied with reference to its sources, its sanctions, its present condition, and the lines and scope of its probable development.

**HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.** The course of lectures on American Diplomacy embraces the duties of ambassadors and ministers; duties of consuls; treaties, their method of negotiation, various forms of, attitude of Congress, rulings of Supreme Court, and historical sketch of most important American treaties; arbitration, principles of, organization and method of procedure; and the Monroe Doctrine.

**HISTORY OF EUROPEAN DIPLOMACY AND TREATIES.** Approaching diplomacy not merely as the science of the relations of sovereign States and the art of conducting negotiations between them, but primarily as the actual transaction of international business, the course of instruction aims to show what European diplomacy really is by the examination of its history. As all important international transactions are summed up and embodied in definite treaties and conventions, the subject can be most profitably discussed by an analysis of these documents, supplemented by an account of the persons, interests, events, forms, ceremonies, and negotiations that have contributed to their development. By this method it is hoped that it may be possible not only to derive inductively the principles of diplomacy as an art and as a science, but also to present an exposition of the present international relations of Europe as determined by the great treaties, from the Congress of Westphalia to the Congress of Berlin, showing the existing affinities, antagonisms, and tendencies of the chief European powers.

**COMPARATIVE POLITICS; POLITICAL GEOGRAPHY IN ITS RELATION TO POLITICAL HISTORY.** The work in this department is designed to put the student in possession of the main results of political development, enabling him to follow the course of history, both in its geographical and in its political movement,

with special reference to the structure and influence of the States whose work has been worth most to the world.

**FINANCE.** This subject is treated broadly with reference to international relations in commerce and banking. It considers the nature and functions of money and credits and their international circulation; also the subject of Public Finance, including the sources of government revenues, bond issues, taxation, the disbursement of the revenues, and the organization of the Treasury Department.

**INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.** This course treats of the products of the United States which are the subjects of international trade; where like products are grown or manufactured, and the markets for the same, giving the general currents or geography of trade and commerce and showing how affected by treaties and legislation, and the services of diplomatic and consular agents of the United States.

**TRANSPORTATION AND INTERSTATE COMMERCE LAW.** This subject is treated historically, beginning with the public highway, the use of navigable waters, and the construction and operation of canals and railroads; observing the rights of the public; the relations of owners of railroads to the management and the public; theory and practical working of competition and combination; legislative control, and reviewing the Interstate Commerce Law and the decisions thereunder.

**STATISTICS AND SOCIAL ECONOMICS.** The aim is to teach the principles, theory, and practice of the statistical method, illustrating its use and abuse in presenting data relating to population, production, commerce, wages, prices, crime, etc. Under social economics the course deals with principles of social economics, elements of industrial society, systems of industry, evolution of manufactures, the factory system, the regulation of labor, strikes, arbitration, effects of machinery, prison labor, coöperation, savings institutions, labor legislation, labor organizations, socialism, etc., etc.

## HISTORICAL.

At the annual meeting of the Board of Trustees of the University in June, 1898, an ordinance was adopted establishing,



as a department of the University, "The School of Comparative Jurisprudence and Diplomacy."

This school was opened with appropriate ceremonies at the University November 15, 1898. President McKinley and members of his Cabinet, with many other distinguished men in public life, were present. Addresses were delivered by B. L. Whitman, D. D., President of the University; Charles W. Needham, LL. M., Dean; Hon. John M. Harlan, LL. D., Associate Justice of the Supreme Court of the United States; Hon. David J. Brewer, LL. D., Associate Justice of the Supreme Court of the United States; Hon. Lyman J. Gage, Secretary of the Treasury; Sir Wilfrid Laurier, Premier of Canada, and Hon. John W. Foster, ex-Secretary of State.

On January 3, 1899, Law Lecture Hall was completed and dedicated. This building is located at 1420 H Street, adjoining University Hall; it is very complete, having three lecture-rooms, a large library, and ample office rooms, the entire building being devoted to the use of the Schools of Law.

### OBJECTS.

This school is designed to afford a training in the subjects of higher legal knowledge, the political history of the world, the science and practice of diplomacy, and international law. Its courses are intended for lawyers, for students of jurisprudence and diplomacy, for persons who desire to fit themselves for the public, diplomatic, and consular service of the United States, and for those who desire a broad culture upon the larger questions of public life in order that they may better acquit themselves as journalists, legislators, and molders of public opinion upon the national and international issues of the day. To be an international lawyer or diplomatist one must, in addition to an education which makes one a scholar and lawyer, have special knowledge of the higher and broader subjects of the law and the intercourse between states and nations; to be influential in any public career a man in this day must have a knowledge of political history, the diplomatic relations which have existed between states and nations, the manner in which international controversies have been settled, the currents of international trade and commerce, the general principles of finance as held by civilized nations, and the modern methods

of settling international affairs. It is the special object and purpose of this school to furnish such instruction and opportunities for study at the national capital, where are to be found the archives containing the history of these subjects and the men who have been called to public life by reason of their special fitness to deal with these questions. From among these public men our professors and lecturers are chosen, and these archives and libraries are open to our students.

### ADMISSION.

Applicants who have taken the degree of Bachelor of Laws in this or any other university or law school requiring three years of study will be admitted to the first year of the course as candidates for the degree of Master of Laws.

Applicants who have taken the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Philosophy, or Bachelor of Laws in the Columbian University or any other university requiring an equal amount of study for the degree, and all others who have done work equivalent to that required for either of these degrees, and who pass a satisfactory examination before the Faculty of the School, are entitled to admission to the two-years' course as candidates for the degree of Master of Diplomacy or the degree of Doctor of Civil Law.

Satisfactory evidence of degrees taken or equivalent work done will be required in all cases.

Students who have received the degree of Doctor of Civil Law in this school may enter for the degree in Diplomacy, taking the same in one additional year.

Any person approved by the Dean may attend one or more courses of lectures in the school, have the benefit of the examinations, and receive a certificate for the work done.

**LANGUAGES.** A knowledge of Latin is regarded as essential in both of the law courses to enable students to properly pursue the history of the law. In addition to Latin, one of the modern languages, either French, German, or Spanish, will be required of applicants for the degree of Doctor of Civil Law, and a knowledge of either French, German, or Spanish will be required of those taking the degree of Master of Diplomacy. Students who have not received sufficient instruction in the

languages required may take the same during their course, in the Department of Languages of the University. A special tuition is charged for each language taught.

## ORATORY.

There are classes in oratory under the charge of Professor Channing Rudd. The purpose of this course is to qualify the student to express his knowledge and communicate his ideas in a convincing, persuasive, and effective manner. The course includes voice culture, chest cultivation, deep breathing, gesticulation, self-control, extemporaneous speaking, argumentation, debating, and brief drawing. The aims are to culture the voice and make it rich, powerful, and flexible; making the bodily movements aid the expression of thought and emotion, and training the mind to quick, clear, and logical thinking.

## DEGREES AND THESES.

The degree of Master of Laws is conferred upon students taking the prescribed course and passing the required examinations.

The degrees of Doctor of Civil Law and Master of Diplomacy are conferred upon students who take the courses prescribed therefor, pass the required examinations, and submit satisfactory and creditable theses upon subjects covered by some part of the courses.

## EXAMINATIONS.

Examinations are held at the conclusion of each course of study. A thesis is required of all students who are candidates for the degrees of D. C. L. and M. Dip. upon a topic to be selected by the student and approved by the Faculty.

## PRIZE.

A prize, offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second editions, or a set of the Encyclopædia of Pleading and Practice, is awarded to the student in this school who shall write the best thesis on some legal subject, to be assigned by the Faculty.

## FEES.

The tuition fee is one hundred dollars for each year, payable in advance, monthly or quarterly, at the option of the student. The tuition fee for the course in Oratory is fifteen dollars.

Students are required to present tickets showing the payment of tuition fees before admission to the lectures.

Printed synopses and publications issued in connection with the work are furnished to students at cost.

Students proposing to withdraw from the School of Comparative Jurisprudence and Diplomacy will inform the Registrar to that effect. In the absence of such notification no claims for exemption from fees will be allowed.

Students taking special courses only are charged fifteen dollars for each subject.

Regular students taking the languages are charged an extra fee of twenty dollars for each language taken.

The fee for diploma is ten dollars, and a library fee of two dollars per year is charged.

NOTICE.—*Increase of tuition fee.*

*Students matriculating for the Academic year beginning October 7, 1901, and thereafter will be charged a tuition fee of one hundred dollars per annum, but students already registered may complete the course at the tuition fixed at the time of entering the school.*

## LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 3,500 volumes, is open to the students in Law Lecture Hall from nine a. m. to ten p. m. Competent librarians are in charge, and will give students assistance in looking up subjects and in the use of books.

The library contains the standard text-books, the West Reporter System of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

*Prize Award, 1900.*

Edward Thompson Company Prize.....Walter Scott Smith.

For further information and application blanks for admission, address the

SECRETARY OF THE SCHOOLS OF LAW,  
1420 H Street, Washington, D. C.

## STUDENTS OF THE SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.

### *Candidates for the Doctorate in Civil Law.*

Name.	State.	Address.
Bingham, Goundry W.....	Ala....	802 11th Street.
LL. B., Georgetown University.		
LL. M., Columbian University.		
Boyd, L. S.....	La....	312 C Street.
B. S., M. S., Alabama State College.		
LL. B., Tulane University.		
Butts, Joseph Waddell .....	N. Y...	918 T Street.
LL. B., LL. M., Columbian University.		
Choate, Warren R.....	Md....	525 11th Street.
LL. B., LL. M., National University.		
LL. M., Columbian University.		
Clark, Charles C.....	Pa....	1718 Q Street.
LL. M., Columbian University.		
Crooks, James W.....	Ill....	303 B Street.
LL. B., LL. M., Columbian University.		
Doyle, John Thomas .....	N. Y...	2104 Wyoming Ave.
LL. B., LL. M., M. Dip., Columbian University.		
Harris, John T.....	Mo....	La Fetra Hotel.
LL. B., LL. M., Columbian University.		

Name.	State.	Address.
Hawksworth, Alfred T.....	N. H..	1206 K Street.
LL. B., LL. M., Columbian University.		
Hudson, Edward Clark.....	Texas..	316 C Street.
A. B., A. M., Hiwassee College.		
A. M., Ph. D., Columbian University.		
Husted, Glenn Edward.....	Mich..	Department of Justice
LL. B., LL. M., Columbian University.		
Johnson, Livingston S.....	Va....	1460 Corcoran Street.
LL. B., LL. M., Columbian University.		
Kodera, Kenkichi.....	Japan .	617 H Street.
LL. B., LL. M., Columbian University.		
Langley, John W.....	Ky....	420 6th Street.
LL. B., LL. M., National University.		
LL. M., Georgetown University.		
LL. B., LL. M., Columbian University.		
Mather, Franklin D.....	Cal....	716 7th Street.
McHarg, Ormsby.....	N. Dak.	1534 22d Street.
LL. B., University of Michigan.		
LL. M., Columbian University.		
McRoberts, Charles Gregory...	D. C...	302 C Street.
LL. B., LL. M., Columbian University.		
Nishizawa, Wasatoshi.....	Japan..	1310 N Street.
LL. B., Kei-o-Gizuku University.		
Obenchain, C. A.....	Ill.....	1014 Mass. Avenue.
LL. B., LL. M., Georgetown University.		
Patterson, Alvah Worrell.....	Oreg...	817 15th Street.
LL. B., LL. M., Columbian University.		
Peppers, David J.....	Ill.....	817 15th Street.
LL. M., Columbian University.		
Peyser, Julius I.....	D. C...	Columbian Building.
LL. B., Georgetown University.		
LL. M., Columbian University.		
Ruoff, Henry Woldmar.....	Mass...	
A. B., University of Indiana.		
A. B., Harvard University.		

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Name.	State.	Address.
Towson, Richard M..... LL. B., LL. M., Columbian University.	Va ....	1021 Vermont Avenue.
Varney, Walter U..... LL. B., LL. M., Columbian University.	Va ....	1321 F Street.
Vieth, Henry A..... LL. B., LL. M., Columbian University.	Wis....	234 11th Street, N. E.
Westcott, Charles Drake..... LL. B., LL. M., Columbian University.	Penn..	1414 20th Street.
West, Goldsmith Bernard..... LL. B., LL. M., Georgetown University.	D. C...	Washington Times.
Wyman, Bayard..... LL. B., University of Michigan. LL. M., Columbian University.	Mich..	1013 L Street.

### *Candidates for the Degree of Master of Diplomacy.*

Name.	State.	Address.
Allen, Charles Kissam..... LL. B., LL. M., National University. LL. M., D. C. L., Columbian University.	N. Dak.	1828 Jefferson Place.
Gale, William H..... Ph. B., Yale University.	N. Y...	1318 14th Street.
Grier, W. W..... A. B., Columbian University.	D. C...	1223 K Street.
Linkins, Charles.... LL. B., LL. M., D. C. L., Columbian University.	D. C...	1923 G Street.
Meritt, Edgar B..... LL. B., Georgetown University. LL. M., Columbian University.	Ark....	925 N Street.
McKinley, J. William..... LL. B., LL. M., D. C. L., Columbian University.	Ohio ..	1351 Harvard Street.
Rives, George Barclay..... A. B., Princeton University.	N. J...	10 Lafayette Square.
Schoeverling, William Loraine. LL. B., LL. M., Chicago Law School. D. C. L., Columbian University.	Ill.....	1008 M Street.

Name.	State.	Address.
Tyssowski, J. Gorham.....	D. C...	1431 R. I. Avenue.
LL. B., LL. M., Columbian University.		
Winthrop, Robert Nisson.....	Mass..	Club Chambers.
A. B., Harvard University.		

*Candidates for the Degree of Master of Laws.*

Name.	State.	Address.
Abreu, José C. ....	P. I....	1336 I Street.
A. B., Ateneo Municipal College, Manila, P. I.		
Barham, Edwin C. ....	Cal....	221 E Street.
Biehl, William F. ....	Ohio...	Interior Department.
B. S., M. S., Columbian University.		
Briesen, Fritz von. ....	N. Y...	918 F Street.
A. B., Harvard University. LL. B., New York University.		
Butler, T. J. ....	Kans..	925 H Street.
LL. B., Columbian University.		
Hawley, Everett M. ....	Kans..	War Department.
Johnson, Adolph E. L. ....	Minn..	1234 I Street.
LL. B., University of Minnesota.		
Johnson, Olie L. ....	Wis ...	229 3d Street.
LL. B., University of Wisconsin.		
Kline, Aubrey J. ....	Va ....	600 R Street.
LL. B., Columbian University.		
McClure, James B. ....	Iowa ...	1330 N. Y. Avenue.
LL. B., Columbian University.		
McClure, William E. ....	Oreg...	1514 12th Street.
A. B., University of Oregon. LL. B., Columbian University.		
Meade, Knighton T. ....	Pa. ....	1604 Vermont Ave.
A. M., Alleghany College. Member Pittsburg Bar.		
Meussdorffer, Clinton H., Jr., .	Oreg...	213 C Street.
LL. B., University of Oregon.		
Nakamura, Takashi. ....	Japan .	1204 N Street.
Nakatsuka, Yeijiro. ....	Japan .	619 F Street.
Polk, Charles M. ....	Ark ...	Census Office.
LL. B., University of Arkansas.		



# SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 195

Name.	State.	Address.
Quaintance, H. W.....	Ill. ....	707 Mass. Ave., N. E.
A. B., University of Nebraska.		
M. A., University of Illinois.		
LL. B., Northern Illinois College.		
Quinn, Frank Q. ....	Mich ..	1242 11th Street.
LL. B., University of Michigan.		
Rodgers, George Dick. ....	Kans..	911 I Street.
A. B., Kansas State University.		
LL. B., National University.		
Rudd, Channing .....	Mo....	1208 K Street.
LL. B., Kansas City School of Law.		
Sawyers, William H.....	W. Va.	509 4th Street.
LL. B., West Virginia University.		
Stephens, Robert D.....	Fla. ...	1313 14th Street.
LL. B., University of Georgia.		
Stewart, W. H., Jr.....	Ga....	721 8th Street.
LL. B.		
Stuart, Albert Rhett....	S. C... 1226	15th Street.
B. A., M. A., LL. B., Columbian University.		
Taylor, John E. ....	D. C... 1226	15th Street.
Ph. B., A. M., Dickinson College.		
LL. B., LL. M., National University.		
Tharin, Frank N.....	S. C... 1435	9th Street.
LL. B., Columbian University.		
Twohey, James Austin.....	D. C... 1435	9th Street.
LL. B., Harvard University.		
Weimer, George V.....	Mich ..	1213 N Street.
LL. B., Columbian University.		
Yamada, Fukusaburo.....	Japan .	619 H Street.
LL. B., Meiji Law School.		

## Special Students.

Name.	State.	Address.
Able, Robert Felder.....	S. C... 911	M Street.
LL. B., LL. M., D. C. L., Columbian University.		
Adams, Ada L.....	Kans..	The Cairo.
Bond, T. H.....	D. C... 310	1st Street, S. E.
LL. B., LL. M., Columbian University.		

Name.	State.	Address.
Edmunds, Percy S.....	Miss...	1217 K Street.
Greaceu, Clare.....	Mich..	1418 20th Street.
A. M., LL. B., Howard University.		
Griswold, Stewart C.....	Mich..	1213 N Street.
LL. B., LL. M., Columbian University.		
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Matthews, Charles Eugene....	Okla...	Sixth Auditor's Office.
LL. B., LL. M., D. C. L., Columbian University.		
Miller, Claude E.....	Pa ....	1339 15th Street.
LL. B., LL. M., D. C. L., Columbian University.		
Osborne, Roy Wallace.....	Mass ..	1316 W Street.
A. B., Harvard University.		
Porter, Herbert W.....	Conn..	24 Q Street, N. E.
Seitz, Earl W.....	Mo....	1423 F Street.
Sprowls, James M.....	Pa.....	245 10th Street, N. E.
A. B., A. M., Waynesburg College.		
LL. B., LL. M., Columbian University.		
Stansell, Wallace K.....	Ga ....	1410 Bacon Street.
A. B., University of Georgia.		
LL. B., LL. M., Georgetown University.		
Young, Glendie B.....	Va ....	1343 Corcoran Street.

*Recapitulation.*

Candidates for the Doctorate in Civil Law....	29
Candidates for the degree of Master of Diplomacy.....	10
Candidates for the degree of Master of Laws..	29
Special students.....	15
Total.....	83

# THE MEDICAL SCHOOL.

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Demonstrator of Obstetrics.

JAMES CARROLL, M. D.,  
Senior Demonstrator of Pathology and Bacteriology, and  
Associate in Clinical Laboratory Instruction.

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W. N. FISHER, M. D.,  
Junior Demonstrators of Pathology and Bacteriology.

B. L. HARDIN, M. D.,  
Associate in Physical Diagnosis.

THOMAS DOWLING, M. D.,  
Assistant to the Chair of Practice.

O. A. McKIMMIE, M. D.,  
Examiner of Applicants for Matriculation.

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---

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 F. R. Hagner, M. D.

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D. K. SHUTE, M. D.

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*Diseases of the Throat and Ear.*

C. W. RICHARDSON, M. D.

Assistant: F. P. Morgan, M. D.

*Diseases of the Skin.*

H. C. YARROW, M. D.

Associate: R. B. Carmichael, M. D.

*Diseases of Children.*

T. E. MCARDLE, M. D.

Assistant: Frank Leech, M. D.

*Orthopedic Surgery.*

A. R. SHANDS, M. D.

*Diseases of the Nervous System.*

STERLING RUFFIN, M. D., E. L. TOMPKINS, M. D.

Assistant: A. L. Lawrence, M. D.

*Genito-Urinary Diseases.*

T. R. STONE, M. D.

Assistant: W. T. Burch, M. D.



*Clinical Laboratory.*

E. A. DE SCHWEINITZ, M. D.

Associates: James E. Carroll, M. D., W. B. Nichols, M. D.

*Pathologist.*

WALTER REED, M. D., U. S. A.

Assistant: L. W. Glazebrook, M. D.

*Superintendent.*

Miss A. G. ODELL.

*Resident Physicians.*

BOYD DIXON, M. D., J. S. RIGGLES, M. D.

**LECTURES.—FIRST YEAR, 1901-1902.**  
**BEFORE AND AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY	THURSDAY.	FRIDAY.	SATURDAY.
12-3	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.
4-6		Chemistry. Laboratory.	Pharmacy.			
<b>BEFORE CHRISTMAS.</b>						
5-30		Chemistry. Lower Room.		Chemistry. Lower Room.		Chemistry. Lower Room.
6-30		Anatomy.	Materia Medica and Therapeutics.	Anatomy.		Anatomy.
7-30	Physiology. Upper Room.	Chemistry. Laboratory.		Practical Anatomy.	Physiology. Lower Room.	Materia Medica and Therapeutics.
8-30	Practical Anatomy.		Practical Anatomy.		Practical Anatomy.	Pharmacy.
<b>AFTER CHRISTMAS.</b>						
5-30		Chemistry. Lower Room.				Chemistry. Lower Room.
6-30		Anatomy.	Materia Medica and Therapeutics.		Materia Medica and Therapeutics.	Anatomy.
7-30	Materia Medica and Therapeutics.	Chemistry. Laboratory.	Physiology. Lower Room.		Physiology. Lower Room.	
8-30	Physiology. Lower Room.		Practical Anatomy.		Pharmacy.	Practical Anatomy.
9-30	Practical Anatomy.	Practical Anatomy.			Practical Anatomy.	

**LECTURES.—SECOND YEAR, 1901-1902.**  
**BEFORE AND AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
12-3	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.
2-4	Histology.			4-6 { Chemistry. Laboratory.	Histology.	

**BEFORE CHRISTMAS.**

5-30	Histology. Laboratory.	Chemistry. Lower Room.	Chemistry. Lower Room.	Histology. Laboratory.	Chemistry. Lower Room.
6-30	Histology. Laboratory.	Anatomy.	Materia Medica and Therapeutics.	Histology. Laboratory.	Anatomy.
7-30	Physiology. Upper Room.	Practical Anatomy.	Minor Surgery. Oct. 9 to Dec. 11.	Physiology. Lower Room.	Materia Medica and Therapeutics.
8-30	Practical Anatomy.		Practical Anatomy.	Practical Anatomy.	Pharmacy.

**AFTER CHRISTMAS.**

5-30	Histology. Laboratory.	Chemistry. Lower Room.	Histology. Laboratory.	Practical Anatomy.	Chemistry. Lower Room.
6-30	Histology. Laboratory.	Anatomy.	Materia Medica and Therapeutics.	Materia Medica and Therapeutics.	Anatomy.
7-30	Materia Medica and Therapeutics.		Physiology. Lower Room.	Physiology. Lower Room.	Chemistry. Laboratory.
8-30	Physiology. Lower Room.	Practical Anatomy.	Practical Anatomy.	Pharmacy.	

**LECTURES.—THIRD YEAR, 1901-1902.**  
**BEFORE AND AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
1-2.00	Otology and Laryngology.	Surgical Diseases.		Otology and Laryngology.		Surgical Diseases.
1-2.00		Ophthalmology.		Surgical Diseases.		
1-2.00	Gynecology.		Gynecology.		Gynecology.	Genito-urinary and Venereal.
2-3.00	Dermatology.	Nervous Diseases.	Diseases of Children and Orthopedic Surgery.		Nervous Diseases.	Diseases of Children and Orthopedic Surgery.
2-3.00	Ophthalmology.	Medical Diseases.		Medical Diseases.		Medical Diseases.
2-3.00	Medical Dispensary.	Sh Dis		Ophthalmology.	Medical Diseases.	Surgical Diseases.
2-3.00	Surgery.	S		Surgical Diseases.		
3.00	Mental Diseases.					
4.15		Medic		Medical Clinics.		Medical Clinics.
5.30				Surgical Clinics.		Sundays, at 10.30, Surgery, at Garfield.

**LECTURES.—THIRD YEAR, 1901-1902.**  
**BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	Surgery. Upper Room.		Surgery. Upper Room.		Surgery. Upper Room.	
6.30	Obstetrics. Upper Room.	Ophthalmology. Oct. 8 to Dec. 10. Upper Room.	Obstetrics. Lower Room.	Oct. 10 to Dec. 19. Medical Jurisprudence. Upper Room.	Obstetrics. Upper Room.	Surgical Pathology. Oct. 12 to Dec. 21. Upper Room.
7.30	Bacteriology. Laboratory.	Practice. Lower Room.	Bacteriology. Laboratory.	Practice. Lower Room.	Bacteriology. Laboratory.	Clinical. Laboratory.
8.30	Bacteriology. Laboratory.	Physical Diagnosis.	Bacteriology. Laboratory.		Bacteriology. Laboratory.	Clinical. Laboratory.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	Surgery. Upper Room.				Surgery. Upper Room.	
6.30	Obstetrics. Upper Room.	Hygiene. Jan. 7 to 29. Upper Room.	Clinical. Laboratory.	Hygiene. Upper Room.	Obstetrics. Upper Room.	Hygiene. Upper Room.
7.30	Pathology. Laboratory.	Practice. Lower Room.	Pathology. Laboratory.	Practice. Lower Room.	Pathology. Laboratory.	Practice. Lower Room.
8.30	Pathology. Laboratory.	Physical Diagnosis.	Pathology. Laboratory.	Dermatology. Jan. 2 to Mar. 5.	Pathology. Laboratory.	

**LECTURES.—FOURTH YEAR, 1901-1902.  
BEFORE AND AFTER CHRISTMAS.**

HOURS	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
12-1.00	Nervous Diseases.			Nervous Diseases.		
1-2.00	Otology and Laryngology.	Surgical Diseases.		Otology and Laryngology.		Surgical Diseases.
1-2.00				Surgical Diseases.	Orthopedic Surgery.	Otology and Laryngology.
1-7.00	Gynecology.	Genito-urinary.	Gynecology.	Gynecology.	Gynecology.	Genito-urinary and Venereal.
2-3.00	Dermatology.	Nervous Diseases.	Diseases of Children and Orthopedic Surgery.		Nervous Diseases.	Diseases of Children and Orthopedic Surgery.
2-3.00	Ophthalmology.	Medical Diseases.		Medical Diseases.		Medical Diseases.
2-3.00	Medical Dispensary.	Surgical Dispensary.	Medical Diseases.	Ophthalmology.	Medical Diseases.	Surgical Diseases.
2-3.00	Surgery.	Surgery.	Surgery	Surgical Diseases.		
3.00	Mental Diseases.					
4.15		Medical Clinics.	Children's Diseases.	Medical Clinics.		
5.30				Surgical Clinics.		

Special Surgical Clinic at Garfield at 10.30 a. m.

Special Gynecology at Emergency at 1 p. m.

**LECTURES.—FOURTH YEAR, 1901-1902.**  
**BEFORE CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
5.30	Surgery. Upper Room.		Surgery. Upper Room.		Surgery. Upper Room.
6.30	Obstetrics. Upper Room.		Obstetrics. Lower Room.		Obstetrics. Upper Room.
7.30	Otology and Laryngology. Oct. 14 to Nov. 27. Lower Room.	Practice. Lower Room.	Otology and Laryngology.	Practice. Lower Room.	Otology and Laryngology.
8.30		Orthopedic Sur- gery. Nervous Diseases. Upper Room.		Orthopedic Sur- gery. Oct. 10 to Oct. 31. Nervous Diseases. Nov. 2 to Nov. 23.	Orthopedic Sur- gery. Nervous Diseases.

**AFTER CHRISTMAS.**

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30						
6.30						
7.30						

## DEPARTMENTS OF INSTRUCTION.

The system of instruction adopted by the Medical School of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otol-ogy, Laryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Pæ-  
diatrics, Minor Surgery, Histology, Pathological Histology, Or-  
thopedic Surgery, and Surgical Pathology.

Laboratory instruction is given in Chemistry, Histology, and Pathological Histology, Bacteriology, Pharmacy, and Clinical Medicine.

The eightieth course of lectures begins on Monday, October 7, 1901.

The Introductory Lecture of the Course will be delivered by Professor D. K. Shute, on the 7th of October, and the regular didactic lectures will continue throughout the session, beginning at 5.30 p. m. of each week day. The laboratories and dissect-  
ing room are open at stated hours day and evening. Practical clinics during the day.

## SURGERY.

### PROFESSOR THOMPSON,

Surgeon to the University Hospital, the Children's Hospital, and to the Gar-  
field General Hospital.

The course embraces Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical In-  
struction at the School.

As Professor Thompson is the attending Surgeon of the University, Children's and Garfield Hospitals, students are offered the opportunity for Clinical Instruction in these Institu-  
tions.

Every effort is made to teach Surgery in accordance with the latest developments of scientific research. At the School opera-  
tions are performed upon the cadaver, and the uses of all im-  
portant surgical instruments and appliances are demonstrated in the same manner.



**MINOR SURGERY.**—Practical class instruction is given by Professor McArdle and his assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

## THEORY AND PRACTICE OF MEDICINE.

PROFESSOR JOHNSTON,

Physician to the University Hospital and Consulting Physician to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

The student is urged to pay special attention to the course in Histology during the second year, as this is essential to a proper understanding of the internal diseases of the human body. The courses in Pathology and Bacteriology should also receive the closest study, for without a clear knowledge of these subjects no satisfactory advance can be made.

The method of instruction employed in this subject is as follows:

1. Lectures at the School, with occasional recitations.
2. Clinical lectures at the University Hospital, with practical instruction in the art of diagnosis and in the methods of taking and recording histories of medical cases.
3. Demonstration of the use of instruments of research for the clinical study of the sputum, blood, feces, etc.

## OBSTETRICS AND GYNECOLOGY.

PROFESSOR KING,

Obstetrician to the University Hospital; one of the Consulting Physicians to the Children's Hospital, etc.

This course comprises a series of lectures on the Science and Art of Midwifery, and on the Diseases of Women. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books, so as to render them more easily intelligible, and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The Demonstrator of Obstetrics, Dr. Edward E. Morse, demonstrates obstetric operations and allows students to perform these operations upon the

manikin, under his direction. This course is limited to fourth-year students, and all are required to take it before becoming candidates for graduation.

In the Department of Gynecology the various instruments and appliances used in treating the diseases of women are exhibited and their uses fully explained. Clinical instruction in Surgical Gynecology will be given by Prof. H. L. E. Johnson at the hospitals, where students will witness the various surgical operations required in gynecological cases.

Clinical Instruction in Obstetrics will be given by Dr. Cabell at the Columbia Hospital.

## ANATOMY.

PROFESSOR SHUTE,

Ophthalmic Surgeon to the University Hospital and to the Washington Hospital for Foundlings.

This course of lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body may be acquired during the two courses of lectures, which each student attends, to qualify him for the practice of medicine, if at the same time he does his duty in the dissecting-room.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciop-ticon is also employed constantly to present photographic views of many regions of the body.

Special attention is given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the medical profession.

Public oral examinations are conducted by the lecturer from time to time.

The prosectors prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

**PRACTICAL ANATOMY.**—Anatomical material is abundantly supplied. The dissecting-room of the School is large, thoroughly ventilated, well lighted, and furnished with every requisite for

the convenience and comfort of the student. It is under the direction of the Professor of Anatomy. The Demonstrator of Anatomy and his assistants are present at stated hours to give personal attention to the students and properly to instruct them in their dissections.

## CHEMISTRY AND TOXICOLOGY.

PROFESSOR DE SCHWEINITZ,

In charge of Clinical Laboratory University Hospital, and Director of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces :

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions, are studied.

Due attention is given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction is given in the general methods of qualitative and quantitative analysis, volumetric analysis, toxicology, urine analysis, water analysis, and special clinical analyses

Opportunity for advanced work in biochemistry is afforded.

## PHYSIOLOGY.

PROFESSOR CARR,

Associate Surgeon to the University Hospital and Surgeon to the Central Dispensary and Emergency Hospital.

This subject is fully presented by a two years' course of lectures, and the lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Especial emphasis is given to those truths that have a practical value.

Physiological anatomy receives special attention, and is illustrated by charts, diagrams, working models, and anatomical specimens in all cases, and by demonstrations upon anæsthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy is also taught by Professor

Washburn in the laboratory, and an opportunity is given students to do practical work as far as their time will permit.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RUFFIN,

Associate in Nervous Diseases, University Hospital, and one of the Visiting Physicians to the Home for Incurables.

Instruction in this department extends through the first two years, and embraces :

1. The study of crude drugs and their preparations, and the art of prescribing.
2. The physiological action of drugs in the human system.
3. The practical application of drugs and other therapeutical agencies to the prevention and cure of disease and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is simplified and made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

## DERMATOLOGY.

PROFESSOR YARROW,

Dermatologist to the University Hospital and one of the Consulting Physicians to the Garfield Hospital and Woman's Clinic.

Professor Yarrow gives lectures on this subject, illustrated by diagrams, models, photographic illustrations of disease from life, and also the exhibition of cases. In connection with the course clinical instruction is given at the Central Dispensary and Emergency Hospital and the University Hospital by Dr. Carmichael, where an abundance of material affords excellent clinical advantages.

## PÆDIATRICS.

## PROFESSOR ACKER,

Associate Physician to the University Hospital and Physician to the Children's Hospital.

The Professor lectures upon diseases of infants and children and the importance of their proper management by diet and hygiene.

## GYNECOLOGY.

## PROFESSOR JOHNSON,

In Charge of the Department of Gynecology and Maternity, Central Dispensary and Emergency Hospital, Associate Gynecologist, University Hospital; Consulting Physician to Woman's Clinic and Washington Asylum Hospital.

The Professor gives his lectures on the diseases peculiar to women with special clinical instruction in physical diagnosis at the Emergency Hospital from October to May. Students are required to attend. Operative work will be demonstrated as frequently as possible. The Professor has organized in connection with his service an outdoor maternity clinic, which is open to students.

## MINOR SURGERY.

## PROFESSOR MCARDLE,

Pædiatrician, University Hospital, and one of the Assistant Physicians to the Children's Hospital.

The course in Minor Surgery consists of lectures and practical demonstrations concerning bandaging, preparation of materials used in aseptic and antiseptic dressings, preparations for aseptic or antiseptic operations, strapping, vaccination, and other minor surgical procedures. Under the supervision of assistants, the students themselves apply the various splints, bandages, surgical dressings, etc.

**OPHTHALMOLOGY.**

**PROFESSOR BUTLER,**

Ophthalmologist at Garfield Hospital, in Charge of the Lutheran Eye and Ear Infirmary, and Associate Ophthalmologist, University Hospital.

The Professor gives a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

**LARYNGOLOGY AND OTOTOLOGY.**

**PROFESSOR RICHARDSON,**

Laryngologist to the University, the Providence, and the Episcopal Eye, Throat, and Ear Hospitals.

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

**NERVOUS DISEASES.**

**PROFESSOR TOMPKINS,**

In charge of the Department of Nervous Diseases at the Central Dispensary and Emergency Hospital; Associate in Nervous Diseases, University Hospital.

Lectures are given upon the more common and important of these affections.

**SURGICAL PATHOLOGY.**

**PROFESSOR VAN RENSSELAER,**

Associate Surgeon, University Hospital, and one of the Surgeons to the Garfield Hospital.

The Professor gives a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

## ORTHOPEDIC SURGERY.

PROFESSOR SHANDS,

Orthopedist, University Hospital.

This course embraces didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction on treatment of the same according to the most modern orthopedic methods.

Special attention is given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures. There are afforded also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction is given in the application and use of plaster of Paris in the treatment of Pott's Disease, Scoliosis, Club Feet, etc.

## HYGIENE.

PROFESSOR PHILLIPS,

In charge of the Section of Climatology, U. S. Weather Bureau.

The course in Hygiene is directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation of health and the prevention of disease; it comprises also the consideration of the laws of hygiene as applied to the individual and to the community.

## PATHOLOGY AND BACTERIOLOGY.

PROFESSOR REED.

Pathologist of the University Hospital, Curator of the Army Medical Museum, and Professor of Clinical and Sanitary Microscopy in the Army Medical School.

In this department the effort is made to give the student a practical knowledge, first, of the preparation of culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. After some familiarity with the biological characters of the pyogenic cocci has

been acquired, the study of inflammation is next begun, so that the student may appreciate as fully as possible the several lesions which these microorganisms bring about in various tissues. Thereafter the courses in bacteriology and pathology are carried along, side by side, as much as possible, the specific lesions produced by a pathogenic bacterium being carefully studied in connection with its biological characters. During this course, which lasts from October to May, in addition to the process of inflammation, the diseases of the heart and blood-vessels, the lungs, the liver, kidneys, spleen, and intestines are studied in succession, as far as possible. For this purpose, sections illustrating the various diseases are carefully selected and given to the student, to be stained, mounted, and studied by himself under the immediate supervision of the instructor. These sections become thereafter the property of the student. The course terminates with the microscopical study of the several varieties of tumors.

## HISTOLOGY.

PROFESSOR WASHBURN.

The study of Histology is compulsory for students in the second year of their course. Special attention is given to the manipulation of the microscope, and to that part of the technique necessary for an intelligent study of tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of the body. The Histological Laboratory, open both day and evening, is equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations are held at the close of the session.

## MENTAL DISEASES.

PROFESSOR RICHARDSON,

Superintendent of the Government Hospital for the Insane, St. Elizabeth.

A series of lectures and clinics is given upon the subject of insanity in its varied forms.



## MEDICAL JURISPRUDENCE.

W. C. WOODWARD, M. D.,

Health Officer of the District of Columbia.

This course deals with the relations of Physicians to matters under legal investigation. It covers as fully and practically as possible the more important subjects of forensic medicine. Students are taught to give expert testimony and how to conduct themselves as medical witnesses.

## PHARMACY.

DR. MORGAN.

Instruction is given in this course on the following subjects: 1. The methods of making typical preparations of the Pharmacopœia. 2. Prescription writing. 3. The compounding of prescriptions. 4. Incompatibles and antidotes to poisons. These subjects are taught by practical laboratory work and exercises.

## LABORATORY INSTRUCTION.

The laboratories are furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology, Clinical Medicine, and Pharmacy, as above described.

The Pathological Museum is equipped with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the Deputy Coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the collection.

## CLINICAL INSTRUCTION.

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, is required, and upon other clinics as indicated by the schedule. Records of attendance on these clinics will be kept and will duly affect the student's standing in his classes.

## ADMISSION.

Candidates for matriculation are required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments.

Should an examination be necessary, it will comprise the following subjects :

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra and Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be regularly matriculated.

Dr. O. A. M. McKimmie, 1333 N Street, N. W., will give further information in regard to instruction in Latin, Physics, etc.

## ADVANCED STANDING.

Students of other institutions who have attended one course of lectures in any regular medical school are placed upon the same footing with those who have attended one course in this School, and those who have attended two (or three) courses of lectures in any other regular college or colleges rank with those who have attended two (or three) courses in this institution, and the same privileges as regards examination are extended to them; they are admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

## GRADUATION.

Candidates for the degree of Doctor of Medicine must be of good moral character and at least twenty-one years of age; they must have studied medicine four years, and must have attended four courses of lectures, the subjects arranged as follows:

*First Year.*

Unless otherwise stated, numbers indicated below mean lecture hours per week.

Anatomy.—Three hours before, two hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; three hours' laboratory work, day and evening.

Materia Medica and Therapeutics.—Two hours before, three hours after Christmas; one hour laboratory work.

Practical Anatomy.—Dissection-room open from 12 m. to 3 p. m., and from 7.30 to 11 p. m.

Examination at the end of the year upon the above-named subjects.

*Second Year.*

Anatomy.—Three hours before, two hours after Christmas.

Physiology.—Two hours before, three hours after Christmas.

Chemistry.—Three hours before, two hours after Christmas; four hours' laboratory work.

Materia Medica and Therapeutics.—Two hours before, three hours after Christmas.

Minor Surgery.—One hour, October 9 to December 11, in manikin-room.

Histology.—Laboratory, day and evening.

Practical Anatomy.—Dissection-room open from 12 m. to 3 p. m., and from 7.30 to 11 p. m.

Examination at the end of this year upon the above-named subjects.

*Third Year.*

Surgery.—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three hours after Christmas.

Obstetrics.—Three hours before, two hours after Christmas.

Dermatology.—One hour, from January 2 to March 5.

Ophthalmology.—One hour, from October 4 to December 6.

Bacteriology and Pathology.—Nine hours' laboratory work per week.

Surgical Pathology.—One hour, from October 12 to December 21.

Clinics, as per schedule.

Medical Jurisprudence.—One hour, October 10 to December 19.

Mental Diseases.—One hour, January to April.

Hygiene.—Three hours, January 7 to January 29.

Examination on the above-named subjects at the end of the year.

#### *Fourth Year.*

Surgery—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three hours after Christmas.

Clinics and laboratory instruction.

Obstetrics.—Three hours before, two hours after Christmas.

Gynecology.—One hour and clinics from October to May.

Nervous Diseases.—Three hours, from November 2 to November 23.

Pædiatrics.—One hour, and clinics from January to April.

Otology and Laryngology.—Three hours, from October 14 to November 27.

Orthopedic Surgery.—Three hours, from October 10 to October 31.

Clinics, as per schedule.

Final examination at the close of the fourth year upon the above-named subjects.

The candidate must have dissected for at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended also the required courses of clinical instruction in Medicine, Surgery, and Special Branches.

One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination is both written and oral. The examination for the degree is held at the end of the session in May.

Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

Students who fail to pass the examinations in the spring are allowed a reëxamination in the following fall *only*.

The diploma is granted only at the Annual Commencement, and the degrees are conferred by the authority of The Columbian University, incorporated by act of the Congress of the United States of America.

### THE UNIVERSITY HOSPITAL.

Clinical teaching is conducted in this hospital in conjunction with the didactic lectures in the various branches. The convenient location and the fact that the hospital is under the immediate control of the Medical Faculty offer unusual advantages to the students of this school.

**GARFIELD HOSPITAL.**—Clinical lectures are given regularly during the session by Professors Thompson and Van Rensselaer on Surgery, and by Professors Cook, Claytor, and Deale on Medicine, Carmichael on Dermatology, and Butler on Ophthalmology. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

**CHILDREN'S HOSPITAL.**—A weekly course of Surgical and Medical Clinics is given by Professors Thompson and Acker. An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.**—Dr. H. L. E. Johnson, in charge of the department of diseases of women; Dr. Tompkins, in charge of nervous diseases; Dr. Shands, on general medicine; Dr. Carmichael, in dermatology, and Dr. Stone, in genito-urinary and venereal diseases, conduct courses of instruction in their respective branches.

**PROVIDENCE HOSPITAL.**—Clinical Instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Dr. J. W. Bovée.

LUTHERAN EYE AND EAR INFIRMARY.—The diseases of the eye and ear in this hospital are demonstrated during the clinics of Professor Butler.

EPISCOPAL HOSPITAL.—Dr. Richardson shows cases of diseases of the nose, throat, and ear in the dispensary service of this hospital.

COLUMBIA HOSPITAL.—Clinics and gynecological operations by Dr. Bovée.

ST. ELIZABETH'S.—Dr. A. B. Richardson, the superintendent, will give clinical instruction in mental diseases.

COLUMBIA HOSPITAL.—Dr. Cabell will give clinical instruction in obstetrics.

## CLINICS, 1901-1902.

### *University Hospital.*

Surgery.—Dr. Thompson, Tuesdays; Drs. Van Rensselaer and Carr.

Medicine.—Dr. Johnston, Saturdays, at 4.30; Drs. Acker and Cook.

### *Dispensary Service.*

Surgical Diseases.—Dr. Wellington, Tuesdays, Thursdays, and Saturdays, 1 to 2 p. m.

Medical Diseases.—Dr. Hardin, Tuesdays, Thursdays, and Saturdays, 2 to 3 p. m.

Gynecology.—Dr. H. L. F. Johnson and Dr. Bovée, Wednesdays and Fridays, 1 to 2 p. m.

Diseases of the Eye.—Dr. Shute, Mondays and Thursdays, 2 to 3 p. m.

Diseases of the Ear and Throat.—Dr. Richardson, Mondays and Thursdays, 1 to 2 p. m.

Diseases of the Skin.—Drs. Yarrow and Carmichael, Mondays, 2 to 3 p. m.

Diseases of Children and Orthopedic Surgery.—Drs. McArdle and Shands, Wednesdays and Saturdays, 2 to 3 p. m.

Nervous Diseases.—Drs. Tompkins and Ruffin, Tuesdays and Fridays, 2 to 3 p. m.

Genito-Urinary and Venereal Diseases.—Dr. Stone, Saturdays, 1 to 2 p. m.

*At the Garfield Hospital.*

Surgery.—Dr. Thompson, Sundays, at 10.30, November to April; Dr. Van Rensselaer, Sundays, at 10.30, October 1 to November 1.

Medicine.—Dr. Claytor, Tuesdays and Thursdays, at 4.15, October 1 to January 1; Dr. Cook, Tuesdays and Thursdays, at 4.15, January 1 to April 1.

Medical Dispensary Service.—Dr. Deale, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service.—Dr. Wellington, Tuesdays, Thursdays, and Saturdays, at 2 p. m.

*At the Children's Hospital.*

Children's Diseases.—Dr. Acker, Wednesdays, at 4.15 p. m., January 1 to April 1.

Surgery.—Dr. Thompson, Tuesdays, at 10.30 a. m., October to April.

Medical Dispensary Service.—Dr. Leech, Tuesdays, Thursdays, and Saturdays, at 2 p. m.; Dr. Wellington, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service.—Dr. McArdle, Tuesdays, Thursdays, and Saturdays.

*At the Central Dispensary and Emergency Hospital.*

Gynecology.—Dr. H. L. E. Johnson, Sundays, at 1 p. m., October to April (fourth year).

Orthopedic Surgery.—Dr. Shands, Fridays, at 1 p. m. (fourth year).

Nervous Diseases.—Dr. Tompkins, Mondays and Thursdays, at 12 noon (fourth year).

Surgery.—Dr. W. P. Carr, daily, at 2 p. m., and Thursdays, at 5.30 p. m., October to January 15.

Genito-urinary.—Dr. T. R. Stone, Tuesdays, 1 to 2 p. m. (fourth year).

Dermatology.—Dr. Carmichael, Tuesdays and Fridays, at 12 noon (third year).

*At the Lutheran Dispensary.*

Ophthalmology.—Dr. Butler, Tuesdays, at 1 p. m. (third year).

*Episcopal Eye, Ear, and Throat Hospital.*

Otology and Laryngology.—Dr. Richardson, Saturdays, at 1 p. m., November and December (fourth year).

*At Providence Hospital and at Columbia Hospital, by Special Invitation.*

Gynecology.—Dr. Bovée, Mondays and Thursdays (fourth year).

Obstetrical Demonstrations.—Dr. Cabell will superintend this work at the hospital, and notify fourth-year students when cases are ready.

*At St. Elizabeth's.*

Mental Diseases.—Dr. A. B. Richardson, Mondays, at 3 p. m., January 1 to April 1.

Clinics at the UNIVERSITY HOSPITAL will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, clinics will be given at the other hospitals of the city in accordance with schedule just given.

*Cards giving exact days and hours of all clinical instruction are issued at the beginning of each term.*

When the student presents himself for graduation his record must show that he has attended full courses in clinical instruction in the various branches required.

## UNIVERSITY LECTURES.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they may secure admission to other lectures, given in the Hall of the University, by applying to the Dean.



## PRIZES.

At the end of the term a General Examination Prize of fifty dollars is awarded. It is given to the candidate for graduation who shall pass the best general examination.

The Faculty awards two additional prizes—one for proficiency in Clinical Medicine and one for proficiency in Clinical Surgery.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology; Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology; Professor E. L. Tompkins gives one for the best examination in Nervous Diseases; Professor Acker gives one for the best examination in Pædiatrics, and Professor Butler one for the best examination in Ophthalmology.

*Prize Awards, 1900.*

The General Examination Prize of Fifty Dollars, awarded to H. C. Macatee, of Virginia.

First honorable mention, awarded to C. A. Ragan, of Tennessee.

Second honorable mention, awarded to E. P. Copeland, of the District of Columbia.

Third honorable mention, awarded to H. S. Greene, of Vermont.

The Faculty Prize in Clinical Medicine and Surgery, awarded to W. R. Moulden.

The H. L. E. Johnson Prize in Clinical Gynecology, awarded to C. A. Ragan.

The Sterling Ruffin Prize in Medical Jurisprudence, awarded to T. S. D. Grasty.

The C. W. Richardson Prize in Laryngology and Otology, awarded to R. B. Main.

The E. L. Tompkins Prize in Nervous Diseases, awarded to C. A. Ragan.

The G. N. Acker Prize in Pædiatrics, awarded to C. M. Beall.

The H. C. Yarrow Prize in Dermatology, awarded to T. S. D. Grasty.

The W. K. Butler Prize in Ophthalmology, awarded to H. S. Greene.

## TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY.—*Gerrish's\* Text-Book of Anatomy by American Authors*; Gray's Anatomy; Quain's or Morris' Anatomy; Heisler's Text-Book of Embryology; Holden's Manual of Dissection; Haynes' Manual of Anatomy; Wiedersheim's Structure of Man; Treves' Applied Anatomy.

PHYSIOLOGY.—Kirke's Stewart's Manual; Yeo's Landois & Stirling's Physiology.

CHEMISTRY.—*Richter's*, Remsen's, *Simon's*, or Fowne's Chemistry; Bowman's Medical Chemistry; Witthaus' Chemistry; Purdy's *Uranalysis*; Remsen's Organic Chemistry.

MATERIA MEDICA.—*H. C. Wood's Therapeutics*; National Dispensatory; Ede's Therapeutics.

SURGERY.—American Text-Book of Surgery; Surgery by American Authors, Park; Surgical Pathology and Therapeutics, Warren.

PRACTICE OF MEDICINE.—Osler; Tyson; Anders; Thompson, "Modern Medicine;" Salinger-Kaltayer; Da Costa's, Hare's Diagnosis; Musser's Diagnosis; Clinical Diagnosis, Simon; Klemperer; Clinical Examination of the Blood, Cabot.

OBSTETRICS.—*Playfair*, Lusk, or Parvin's Obstetrics; American Text-book of Obstetrics (Saunders); Obstetric Surgery, by Grandin and Jarman; A. F. A. King's Manual of Obstetrics.

GYNECOLOGY.—*Garrigue's Diseases of Women*; Penrose, Diseases of Women; Montgomery's Text-book of Gynecology; Byford's Manual of Gynecology; Thomas and Mundé's Work.

DISEASES OF CHILDREN.—*Holt on Diseases of Infants and Children*; *J. Lewis Smith*; Meigs and Pepper; Rotch's Work.

HISTOLOGY.—Piersol's Normal Histology; Schäfer or Clarkson's.

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\* The works first named and in *italics* are preferred.

**PATHOLOGY AND BACTERIOLOGY.**—Abbott's Principles of Bacteriology; Ziegler's Pathological Anatomy.

**HYGIENE.**—Parks' Practical Hygiene; Stephenson and Murphy's Treatise on Hygiene and Public Health; Egbert's Hygiene.

**DERMATOLOGY.**—Hyde's Diseases of the Skin; Jackson's Diseases of the Skin; Duhring's Diseases of the Skin.

**OPHTHALMOLOGY.**—Nettleship, de Schweinitz, or Fick.

**MINOR SURGERY.**—Wharton.

**NERVOUS DISEASES.**—Gray, Mills, Hammon, Church, Peterson, Potts, Oppenheim.

**MENTAL DISEASES.**—Beaven Lewis.

**ORTHOPEDIC SURGERY.**—Bradford and Lovett's or Young's Orthopedic Surgery.

**LARYNGOLOGY AND OTOTOLOGY.**—Bacon, Buck, Dench on the Ear; Kyle, Price, Brown, F. S. Bishop on Throat Diseases.

**MEDICAL JURISPRUDENCE.**—Reese; Taylor's Manual; Witthaus and Becker.

**GENITO-URINARY AND VENEREAL DISEASES.**—White and Martin; Hyde, Montgomery, Heys and Chetwood.

**DICTIONARIES.**—Dunlison's, Duane's, Foster's, or Gould's.

## EXPENSES.

For the session of 1901-1902 and thereafter the fee for each year will be \$110. This covers all expenses, dissection and laboratories included, except breakage or loss of valuable apparatus in the laboratories. Of the total fee for the year at least \$25 must be paid upon entrance and again before beginning dissection. Each graduate pays a \$10 fee for diploma.

A deposit is required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For special courses only, separate from the regular courses, the following fees will be charged:

Matriculation fee, payable only once.....	\$5 00
Single tickets.....	25 00
Practical Anatomy, by the Demonstrator.....	15 00
Laboratory tickets, each, per year .....	20 00

Payment of the fees is required in all cases, and must be made at the commencement of the session, unless there are *special* arrangements with the *Dean* to suit the convenience of the student.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

## SCHOLARSHIPS.

By virtue of a liberal endowment from the late Mr. W. W. Corcoran, this School is enabled to offer six free Scholarships.

Two of these Scholarships are open for competitive examination to the graduates of the several High Schools of the District of Columbia. These two scholarships are awarded to the two students whose averages are highest.

Two of the Scholarships are open for competitive examination to graduates of any reputable High School or College (preference being given to those in the District of Columbia) who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two graduates whose averages are highest.

The remaining two Scholarships are open for competitive examination to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In addition to the above-mentioned six Corcoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which will be given to those applicants who after one year's work are judged by the President of the University best qualified to enter the study of medicine for the purpose of becoming medical missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

The School Building is situated opposite a Government reservation, at No. 1325 H Street, N. W., THE UNIVERSITY HOSPITAL at 1335 H Street, N. W., within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

DR. E. A. DE SCHWEINITZ, *Dean*,  
1325 H Street.

## STUDENTS IN MEDICINE.

*First Year Students.*

Name.	State.	Address.
Allemann, Albert.....	Switzerland.	124 D Street, N. E.
Barnhart, G. S.....	Pa.....	810 11th Street.
Bean, B. M.....	N. C...	307 B Street, N. E.
Bennett, R. A.....	Md....	Riverdale, Md.
Bernstein, Hyman.....	Germany.	451 K Street.
Brown, H. A. ....	Mich..	121 A Street, N. E.
Buck, J. R.....	Maine.	119 T Street.
Butts, Heber.....	Mo....	Treasury Department.
Carty, A. B.....	Md....	229 Mass. Avenue.
Christmas, W. W.....	N. C...	1509 S Street.
Clark, W. E.....	Pa ....	1021 Conn. Avenue.
Clarke, W. H.....	D. C...	1742 F Street.
Cockerille, Paul.....	D. C...	Takoma Park, D. C.
Court, E. J.....	D. C...	3303 17th Street.
Crandall, H. C.....	Md....	Navy Yard.
Cummings, O. G.....	Ala....	809 14th Street.
Dewey, T. P., Jr.....	Tenn..	Lanier Heights.
Frishkorn, Robert.....	Pa ....	929 K Street.
Galliher, W. G.....	D. C...	918 I Street.
Gore, Albert J.....	Md....	927 Mass. Avenue.
Gorny, J. L.....	Ohio...	10 3d Street, N. E.
Greer, R. L.....	W. Va.	136 D Street, N. E.
Groff, C. C.....	D. C...	1107 I Street.
Hanson, L. H.....	Wis....	1005 8th Street.
Harrison, C. A.....	Ill....	1006 I Street.
Hartnett, G. M.....	D. C...	923 H Street.
Higgins, M. E.....	Md....	1132 10th Street.
Holmes, J. A.....	D. C...	2137 K Street.
Hospital, Dixon. ....	Va ....	617 E Street.
Hoy, Clinton.....	Ill....	1714 Q Street.
Hudson, W. B.....	D. C...	920 19th Street.
Hunt, A. L. ....	Maine.	1402 L Street.
Hutcheson, J. W.....	Ky....	924 N. Y. Avenue.
Hyde, C. W.....	Ohio ..	929 K Street.
Hynson, L. H.....	Wis....	623 S. C. Avenue, S. E.

Name.	State.	Address.
Lancaster, B. J., Jr.....	Ky....	721 8th Street.
Lewis, A. C.....	Va....	1323 M Street.
Lindsey, M. W.....	Va....	Alexandria, Va.
Martine, F. L.....	N. J...	815 12th Street.
Martyn, H. E.....	D. C...	232 9th Street, S. E.
Mattison, S. J.....	Md....	1014 K Street.
Meloy, G. S.....	Md....	118 C Street.
Merrill, E. D. . . . .	Maine.	1502 17th Street.
Minnegerode, G. C.....	D. C...	1330 30th Street.
Monroe, A.....	Russia.	Navy Yard.
Montgomery, F.....	Mich...	121 Mass. Ave., N. E.
Murray, A. L.....	D. C...	10 3d Street, N. E.
McClure, F. E.....	La.....	1433 L Street.
McFarland, Eppa.....	Va.....	617 E Street.
McKenney, R. I.....	Minn..	1714 Q Street.
Neill, L. C.....	Tenn ..	824 13th Street.
Nolan, J. W.....	Ky....	519 6th Street.
Norcross, A. C . . . . .	Pa.....	1014 Mass. Avenue.
Olsen, E. T.....	Ill.....	232 N. J. Avenue, S. E.
Owensby, N. M.....	Texas..	720 13th Street.
Patten, W. F.....	N. D...	721 8th Street.
Peterson, George.....	Md....	913 H Street.
Pindar, W. S. H.....	N. Y...	1629 Marion Street.
Piper, E. L.....	Maine.	13 6th Street, N. E.
Powell, Llewellyn.....	Va.....	Alexandria, Va.
Prosperi, W. H. . . . .	D. C...	501 8th Street, S. E.
Rhees, Benj. Rush.....	D. C...	Treasury Department.
Reger, H. S.....	Ohio ..	1013 L Street.
Robinette, A. H....	Texas..	520 3d St., N. E.
Roller, R. D.....	W. Va.	1307 Corcoran Street.
Ruedy, R. C.....	Mich...	121 Mass. Ave., N. E.
Saffold, G. S.....	Md....	924 R Street.
Sanderson, C. R.....	D. C...	638 A Street, S. E.
Sawyer, E. W.....	Mass ..	702 10th Street.
Schulze, Wm.....	La.....	316 C Street.
Seitz, Roy E.....	Ill.....	723 8th Street.
Simonton, Lawrence . . . . .	Ind....	1124 11th Street.
Sterne, C. F.....	D. C...	3009 P Street.
Stetson, Thomas.....	D. C...	1353 Kenesaw Avenue.
Syme, W. H.....	Va.....	Alexandria, Va.

Name.	State.	Address.
Taniguchi, N.....	Japan..	933 Florida Avenue.
Warman, F. C. ....	Pa.....	732 12th Street.
Wellner, J. E.....	Pa.....	1224 N. Y. Ave.
White, C. C. ....	Ind....	1529 Corcoran Street.
Wiehle, Max. C. J.....	Va.....	1621 Conn. Avenue.
Williams, A. H.....	Vt.....	1221 K Street.
Worley, D. W.....	Md....	Riverdale, Md.
Yoder, W. B.....	D. C...	405 6th Street, S. W.
Young, W. G.....	Tenn..	Department of Justice.

*Second Year Students.*

Name.	State.	Address.
Adamson, J. H.....	D. C...	1319 Vt. Avenue.
Bacon, A. P .....	Iowa..	319 Pa. Avenue, S. E.
Bagby, B. B.....	Va ....	631 8th Street, N. E.
Barnes, G. S.....	D. C...	1517 I Street.
Beatty, C. H.....	D. C...	123 A Street, N. E.
Bell, C. L.....	Mo....	908 K Street.
Booth, G. W.....	Md....	334 12th Street.
Boothby, W. C .....	N. H..	1119 K Street.
Brenizer, Gilmer.....	N. C...	1538 I Street.
Brian, E. G.....	Md....	34 I Street.
Brandenburg, W. R.....	D. C...	2335 18th Street.
Butterfield, E. E.....	D. C...	1521 T Street.
Coburn, H. C., Jr.....	D. C...	2111 G Street.
Cook, G. B.....	Va ....	3 Thomas Circle.
Cottrell, E. L.....	Ga....	1007 13th Street.
Craig, A. E.....	D. C...	3125 O Street.
Donnally, H. H.....	Minn..	511 B Street, N. E.
Fagin, E. A.....	Ohio...	Interior Department
Farrall, J. C .....	Md....	316 5th Street, S. W.
Fisher, W. C.....	D. C...	1107 G Street.
Fitch, F. A.....	Ky....	154 Thomas Street.
Franklin, E. T. M.....	Va ....	Alexandria, Va.
Gale, J. C.....	Pa.....	D. C. Comm'rs' Office.
Galetzo, W. F.....	Md....	19 Grant Place.
Gough, T. R .....	Md....	College Park.
Green, R. J.....	D. C...	St. Elizabeth's.
Gunnell, J. H.....	D. C...	1765 Q Street.



Name.	State.	Address.
Harley, R. C.....	Md....	Forest Glen.
Harrington, F. E.....	Va.....	633 C Street, N. E.
Hart, F. M.....	N. Y..	1522 Corcoran Street.
Hawes, C. S.....	Mass...	1322 Wallach Place.
Holloway, T. C.....	Ky....	1223 O Street.
Houghton, M. W. ....	D. C...	2025 Kalorama Ave.
Jones, E. E. ....	D. C...	1940 9th Street.
Jones, S. A.....	Ohio...	732 12th Street.
Kalb, J. A.....	Md....	1741 G Street.
Kelley, L. D.....	Md....	1741 G Street.
Knowlton, J. W.....	Mass...	1222 N. H. Avenue.
Leatherman, R. E.....	D. C...	1413 Q Street.
Linville, Thomas.....	N. C...	435 Mass. Avenue.
Love, S. W. E.....	Md....	1602 14th Street.
Lynch, J. M.....	Va....	1621 Mass. Avenue.
Mackall, Bruce.....	D. C...	1721 Riggs Street.
Mahling, E. H.....	Maine.	1507 R. I. Avenue.
Mallory, W. J.....	Va.....	109 5th Street, S. E.
Manville, W. E.....	Tenn..	1305 H Street.
May, C. H.....	Va....	Alexandria, Va.
Murphy, T. F.....	Maine.	1400 L Street.
McDaniel, J. M.....	S. C...	1119 K Street.
McLain, E. B.....	Miss...	The Varnum.
McNeil, I.....	Tenn...	1719 G Street.
Nymann, C. V.....	Ill....	1125 10th Street.
Oswell, C. A.....	N. Y..	1846 Wyoming Ave.
Perlie, H. E.....	Mass...	1141 Conn. Avenue.
Prevatt, J. T.....	Ga....	Geological Survey.
Price, M. H.....	Va.....	1225 H Street, N. E.
Pyles, J. C.....	Md....	Camp Springs, Md.
Reed, C. Eder.....	Md....	1206 T Street.
Reynolds, McPherson.....	Ill....	228 9th Street, N. E.
Schwab, T. W.....	Pa....	608 12th Street.
Sells, Geo. J.....	Tenn...	619 N. J. Ave.
Shaw, H. B.....	Col....	469 Pa. Avenue.
Shreve, J. H., Jr.....	Md....	1612 6th Street.
Smith, D. G.....	D. C...	1911 13th Street.
Smith, E. B.....	Tenn..	1510 R Street.
Smith, H. T.....	Pa.....	Washington Barracks.
Smith, J. W.....	Md....	2017 N Street.

Name.	State.	Address.
Smith, L. Conway .....	Va.....	Alexandria, Va.
Snowden, Edgar.....	Va.....	Alexandria, Va.
Speiden, Edgar, Jr.....	D. C...	639 Elliott St., N. E.
Stevens, H. P.....	Pa.....	18 Grant Place.
Taylor, L. H.....	Va.....	1644 R Street.
Towner, F. H.....	D. C...	1316 T Street.
Van Casteel, Gerald.....	D. C...	344 D Street.
Walters, H. McCoy.....	Ill.....	1007 13th Street.
Webb, P. L.....	D. C...	1319 Emerson St., N. E.
West, R. T.....	Md....	Rockville, Md.
Womble, H. B.....	Ky....	210 E Street, N. E.
Young, S. B.....	Mich..	1019 6th Street, N. E.

*Third Year Students.*

Name.	State.	Address.
Anderson, U. G... ..	N. J...	1204 K Street.
Boyer, G. M.....	Md....	1408 8th Street.
Bridger, J. D.....	Miss...	The Varnum.
Conyngton, Wm.....	Texas..	1013 L Street.
Cottle, I. N.....	Ky....	1017 12th Street.
Emery, O. V.....	Pa.....	Treasury Department.
Foster, C. L. ....	Miss...	1409 N. Capitol Street.
Fry, Samuel.....	La. ...	The Fredonia.
Gilchrist, E. Y.....	Md....	652 Mass. Ave.
Glascok, Alfred.....	Va.....	929 Farragut Square.
Hudson, Edw'd C., A. B., Ph. D..	Texas..	51 Mass. Avenue.
Jewett, Henry M.....	N. H..	Garfield Hospital.
Jones, E. B. ....	Ind....	1309 Roanoke Street.
Laird, J. Packard....	Va.....	929 Farragut Square.
Lovelace, C. ....	Texas..	945 K Street.
Little, R. M.....	Ohio ..	1311 H Street.
Lyon, M. W., Jr.....	N. J...	National Museum.
McGeary, T. J.....	N. J...	1202 T Street.
Murray, A. ....	Va.....	Alexandria, Va.
Parsells, C. W.....	N. Y...	1013 L Street.
Pipes, H. F. ....	W. Va.	1542 7th Street.
Poole, F. H.....	Texas..	1220 H Street.
Quinn, W. A.....	D. C...	803 E. Capitol Street.
Ransdell, R. C.....	Ind....	130 B Street, N. E.

Name.	State.	Address.
Rodgers, J. D.....	Va.....	723 8th Street.
Ryder, L. W.....	Conn..	1013 L Street.
Robey, W. I .....	Va.....	University Hospital.
Williams, J. H.....	Ga.....	Navy Dept. Library
Wimberly, G. W.....	Ga.....	1 Grant Place.
Worthley, M. L.....	Pa.....	469 Pa. Avenue.

*Fourth Year Students.*

Name.	State.	Address.
Andrews, W. F.....	Mich..	1315 Columbia Road.
Atkinson, J. F....	Ind ...	Gov. Printing Office.
Bennett, A. B., Jr.....	Canada.	Garfield Hospital.
Brown, H. L.....	D .C...	230 N. Capitol Street.
Brown, T. J. W.....	Tenn..	1112 13th Street.
Caldwell, H. C., M. D.....	D. C...	949 S Street.
Cannon, W. D., M. D.....	Ill.....	St. Elizabeth's.
Clark, C. P.....	Miss...	620 I Street.
Collins, H. F.....	D. C...	125 10th Street, N. E.
Costello, M. E....	Md....	Hyattsville, Md.
Cuthbertson, C. W., D. D. S...	N. C...	622 E Street.
Davis, W. T. ....	Ky....	1013 L Street.
Eastman, W. R.....	Va ....	Falls Church, Va.
Fadeley, F. F.....	Va ....	2023 N Street.
Freeman, P. L .....	Md....	422 H Street, S. E.
Gotta, R. C.....	Pa.....	818 N. J. Avenue.
Graham, H. H.....	Ohio ..	305 H Street.
Grasty, T. S. D.....	Va ....	Children's Hospital.
Hales, R. A....	N. C...	1325 12th Street, N. E.
Johnson, F. T. ....	Mich..	1442 Florida Ave.
Kittredge, H. E.....	Vt ....	1027 8th Street.
Kemp, T. J., M. D...	Neb ...	457 G Street.
Magruder, E. P.....	Md....	1312 I Street.
March, Harry A.....	Ohio ..	929 K Street.
Marshall, J. W.....	Idaho .	Treasury Department.
Mason, E. L.....	Va ....	Children's Hospital.
McKee, W. P.....	D. C...	Episcopal Hospital.
McKeldin, R. A. W.....	Md ....	333 N. C. Ave., S. E.
Medley, W. W.....	Va.....	1313 Corcoran Street.
Merrill, W. H.....	Vt ....	1110 F Street.

Name.	State.	Address.
Mitchell, J. E.....	Md ....	814 13th Street.
Morris, S. J.....	Ohio ..	Garfield Hospital.
Morten, Baxter.....	La.....	Patent Office.
Musgrave, W. E.....	Va.....	Washington Barracks.
Nelson, A. T.....	Va.....	La Normandie.
Perkins, W. R.....	Md' ...	620 Pa. Avenue.
Perry, C. R.....	Va ....	610 21st Street.
Price, H. M.....	D. C...	Asylum Hospital.
Pulliam, J. M.....	Va ....	St. Elizabeth's.
Pyles, W. L.....	D. C...	224 11th Street, S. E.
Reed, D. H.....	N. C...	1712 15th Street.
Robinson, G. M.....	Pa.....	1311 H Street.
Rucker, H. C.....	Va ....	St. Elizabeth's.
Ruffin, G. M.....	N. C...	1023 Vt. Avenue.
Russell, R. L... ..	D. C...	10 7th Street, N. E.
Schlaar, W. F.....	N. Y...	Marine Hospital.
Simmons, M. J.....	Md....	15th and F Streets.
Smith, H. W.....	Pa.....	The Driscoll.
Sykes, J. T.....	D. C...	935 R. I. Avenue.
Tobias, H. W.....	Pa.....	929 K Street.
Turner, K. B.....	Kans...	Pacific Building.
Walker, C. C.....	N. H..	1120 N. Y. Avenue.

*Special Students.*

Name.	State.	Address.
Butts, J. Towers .....	Va ....	1012 14th Street.
Carey, A. B.....	Wis....	1414 N Street.
Lawson, H. W., S. B.....	Mich..	805 A Street, S. E.
Staples, S. G., M. D.....	Va ...	1719 Q Street.

Total..... 249

# THE DENTAL SCHOOL.

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## THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,  
*President pro tempore.*

J. HALL LEWIS, D. D. S.,  
*Dean,*  
Professor of Dental Prosthetics.

HENRY C. THOMPSON, D. D. S.,  
Professor of Operative Dentistry.

D. KERFOOT SHUTE, M. D.,  
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,  
Professor of Chemistry.

WILLIAM P. CARR, M. D.,  
Professor of Physiology.

STERLING RUFFIN, M. D.,  
Professor of Materia Medica and Therapeutics.

JONATHAN R. HAGAN, D. D. S.,  
Professor of Oral Surgery.

W. F. R. PHILLIPS, M. D.,  
Demonstrator of Anatomy.

WILLIAM S. WASHBURNE, M. D.,  
Professor of Normal Histology.

WALTER REED, M. D.,  
Professor of Pathology and Bacteriology.

WILLIAM H. TRAIL, D. D. S.,  
R. E. L. HACKNEY, D. D. S.,  
CHARLES R. RICE, D. D. S.,  
H. W. JOHNSON, D. D. S.,  
WILLIAM C. FISHER, D. D. S.,  
CHARLES B. KEEFER, D. D. S.,

Demonstrators, in Charge of Infirmary.

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## DEPARTMENTS OF INSTRUCTION.

The Regular Course of Lectures begins on October 7, 1901 and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. Hall Lewis, on the above date, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The courses of instruction extend through three years, and are arranged as follows:

**First Year.**—Anatomy, Physiology, Chemistry, and Materia Medica, together with Practical Anatomy, Operative and Prosthetic Technics, and such Infirmary work as is suitable for first-year students.

**Second Year.**—The subjects of the first year are continued, and to these are added Operative Dentistry, Prosthetic Dentistry, and Histology, with more advanced Infirmary work.

**Third Year.**—This year is devoted to Operative and Prosthetic Dentistry, Oral Surgery, and Bacteriology. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located Dental School building gives ample opportunities.

The operating-room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in

dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anæsthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the infirmary, which is under the immediate supervision of Professor Lewis and Drs. Trail and Hackney, the Demonstrators in charge. They are in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of their many years of experience in Dental Practice.

The infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of twenty-seven months' actual practice in the Infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

This School complies with all the requirements of the National Association of Dental Faculties, and also with those of the National Association of Dental Examiners, provided the requirements of the latter do not conflict with those of the former.

## SCHEDULE OF LECTURES, 1901-1902.

## BEFORE CHRISTMAS.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	Prof. Thompson. Operative Dentistry. Lower Room. Classes 2 and 3.	Prof. de Schweinitz. Chemistry. Lower Room. Classes 1 and 2.	Prof. Hagan. Oral Surgery. Lower Room. Class 3.	Prof. de Schweinitz. Chemistry. Lower Room. Classes 1 and 2.	Prof. Thompson. Operative Dentistry. Lower Room. Classes 2 and 3.	Prof. de Schweinitz. Chemistry. Lower Room. Classes 1 and 2.
6.30	Prof. Lewis. Prosthetic Dentistry Lower Room. Classes 2 and 3.	Prof. Ruffin. Materia Medica. Lower Room. Classes 1 and 2.	Prof. Shute. Anatomy. Upper Room. Classes 1 and 2.	Prof. Ruffin. Materia Medica. Lower Room. Classes 1 and 2.	Prof. Lewis. Prosthetic Dentistry Lower Room. Classes 2 and 3.	Prof. Ruffin. Materia Medica. Lower Room. Classes 1 and 2.
7.30	Prof. Carr. Physiology. Lower Room. Classes 1 and 2.	Prof. de Schweinitz. Laboratory. Class 2.		Prof. de Schweinitz. Laboratory. Class 2.	Prof. Carr. Physiology. Lower Room. Classes 1 and 2.	Prof. Shute. Anatomy. Upper Room. Classes 1 and 2.
8.30	Prof. Washburne. Histological Laboratory. Class 2.	Prof. Trail. Operative Technics. Class 1.		Prof. Trail. Prosthetic Technics. Class 1.	Prof. Washburne. Histological Laboratory. Class 2.	Practical Pharmacy.

## AFTER CHRISTMAS.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
5.30	Prof. Thompson. Operative Dentistry. Lower Room. Classes 2 and 3.	Prof. de Schweinitz. Chemistry. Lower Room. Classes 1 and 2.	Practical Pharmacy.	Prof. Thompson. Operative Dentistry. Lower Room. Classes 2 and 3.		Prof. de Schweinitz. Chemistry. Lower Room. Classes 1 and 2.
6.30	Prof. Lewis. Prosthetic Dentistry Lower Room. Classes 2 and 3.	Prof. Ruffin. Materia Medica. Lower Room. Classes 1 and 2.	Prof. Shute. Anatomy. Upper Room. Classes 1 and 2.	Prof. Lewis. Prosthetic Dentistry Lower Room. Classes 2 and 3.	Prof. Shute. Anatomy. Upper Room. Classes 1 and 2.	Prof. Ruffin. Materia Medica. Lower Room. Classes 1 and 2.
7.30	Prof. Shute. Anatomy. Upper Room. Classes 1 and 2.	Prof. de Schweinitz. Laboratory. Class 2.	Prof. Carr. Physiology. Lower Room. Classes 1 and 2.	Prof. Reed. Bacteriological Laboratory. Class 3.	Prof. Carr. Physiology. Lower Room. Classes 1 and 2.	Prof. de Schweinitz. Laboratory. Class 2.
8.30	Prof. Carr. Physiology. Lower Room. Classes 1 and 2.	Prof. Trail. Operative Technics. Class 1.	Prof. Washburne. Histological Laboratory. Class 2.	Prof. Trail. Prosthetic Technics. Class 1.	Prof. Washburne. Histological Laboratory. Class 1.	



## PROSTHETIC DENTISTRY AND METALLURGY.

PROFESSOR LEWIS.

In this department the principles involved in the construction of artificial substitutes are exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum is thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., are carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist receive special attention.

The instruction is thoroughly practical, with the purpose of preparing the student for the actual every-day practice of Prosthetic Dentistry.

## OPERATIVE DENTISTRY, DENTAL ANATOMY, AND PATHOLOGY.

PROFESSOR THOMPSON.

This course embraces lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture room, and are demonstrated clinically by gentlemen whose reputations are fully established as proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

## CHEMISTRY.

PROFESSOR DE SCHWEINITZ.

The instruction in this department embraces:

A short discussion of the principles of Physics in their relation to chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry, with special attention to those organic compounds that are of practical use.

Laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

## PHYSIOLOGY.

PROFESSOR CARR.

The subject is fully covered by a two years' course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Emphasis is given to those truths that have a known practical value.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RUFFIN.

Instruction in this department extends through the first two years, and embraces:

The study of crude drugs and their preparations, and the art of prescribing.

The physiological action of drugs in the human system.

The practical application of drugs and other therapeutical agencies to the prevention and cure of disease and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is simplified and made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

## ANATOMY.

PROFESSOR SHUTE.

This course of lectures is arranged with the view to render the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciop-ticon also is constantly employed to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

*Practical Anatomy.*

The dissecting-room is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge. The room is open during the day and at night until 11 P. M., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

## ORAL SURGERY.

PROFESSOR HAGAN.

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

## HISTOLOGY.

PROFESSOR WASHBURNE.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

## BACTERIOLOGY.

PROFESSOR REED.

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

## ADMISSION.

Candidates for admission must show, either by examination or by the exhibit of a diploma or a certificate from some reputable institution of learning, that they have received a good English education, according to the requirements of the National Association of Dental Faculties.

## ADVANCED STANDING.

The following is considered as equivalent to one course in this school :

A diploma from a recognized medical school, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School :

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Graduates from schools of pharmacy and veterinary medicine may enter the Junior Class after passing a satisfactory examination in the first-year studies.

## GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of seven months' duration, and three courses of Clinical Instruction in this Institution, during the regular winter term and in separate years, with the exceptions noted below.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be reëxamined in the fall.

Students may go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular Winter Course. They may reg-

ister at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the School Museum a well constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the School sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second dental course, provided that, one month before the spring examinations, they give to the Dean written notice of their intention, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States.

### FACULTY PRIZE.

A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record. At the last commencement the prize was awarded to A. P. Bacon, of Iowa.

## UNIVERSITY LECTURES.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to other lectures given in the Hall of the University by applying to the Dean.

## TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY.—Gerrish, *Gray's*,\* Quain's Anatomy; Holden's Manual of Dissection.

PHYSIOLOGY.—Yeo's or Flint's Physiology.

CHEMISTRY.—*Mitchell's Dental Chemistry*, Simon's or Fowne's Chemistry.

MATERIA MEDICA.—*H. C. Wood's Therapeutics*; National Dispensatory; Eades' Therapeutics.

PROSTHETIC DENTISTRY.—*The American Text-book of Prosthetic Dentistry*; Essig's Dental Metallurgy.

OPERATIVE DENTISTRY.—*Harris' Principles of Practice*; Tomes Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry—Litch. Gould's Medical Dictionary.

ORAL SURGERY.—Marshall's Oral Surgery.

## EXPENSES.

First Year.....	\$100 00
Second Year.....	100 00
Third Year.....	110 00

The above includes all the tuition expenses. There are no extras whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutic, and Chemical Laboratories and Dental Infirmary are all furnished to the students free of charge.

Each student must furnish his own books and dental instruments.

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\* The works first named and in *italics* are preferred.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he may avail himself of Laboratory and Infirmary instruction.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities.

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The Dean may be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 p. m., and also at the Dental School Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week, from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

For further information regarding the Dental School, application may be made to

J. HALL LEWIS, *Dean,*  
1023 Vermont Avenue.

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## STUDENTS OF DENTISTRY.

### *Freshmen.*

Name.	State.	Address.
Adams, C. E.....	Mo....	404 2d Street.
Allen, F. A. ....	Pa....	651 Mass. Ave., N. E.
Ayers, J. S., Jr.....	Mich..	Kenmon Hotel.
Belford, E. E. ....	Ohio ..	1828 G Street.
Bovee, Charles L.....	.....	1404 H Street.
Buchanan, A. M. ....	N. C...	622 E Street.
*Chenowith, Nick.....	Ind....	473 H Street.
Constantini, C. L. ....	D. C...	411 Mass. Avenue.
Day, Robert ... ..	D. C...	422½ P Street.
Estes, R. M.....	Ky....	924 N. Y. Avenue.
February, L. W.....	Tenn ..	909 13th Street.
Fisher, J. G. ....	Pa....	103 8th Street, N. E.
Fitzpatrick, W. J. ....	Ky....	218 Ind. Avenue.
Gideon, C. C.....	Va....	Ballston, Va.

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\* Not in constant attendance.



Name.	State.	Address.
Glotsfelty, W. B.....	Md....	1522 10th Street.
Green, W. B.....	Maine .	405 B Street, N. E.
Hillyer, E. L.....	D. C...	412 A Street, S. E.
Kerr, E. W., Jr.....	N. C...	1219 I Street.
*King, Paul.....	China .	622 La. Avenue.
Lamkin, L. G.....	Miss...	1104 12th Street.
Liggett, L. C.....	Miss...	— —.
Littlepage, Wm. H.....	Ark ...	901 M Street.
Murray, Fred G.....	D. C...	209 6th Street, N. E.
Nelson, J. A.....	Mich..	619 R Street.
*Rector, George V.....	Va....	515 6th Street.
Smith, Joseph, E. ....	D. C...	317 6th Street, S. E.
Strange, A. A.....	.....	421 6th Street.
*Taylor, L. R.....	.....	312 C Street.
Watt, C. L. ....	.....	174 N. C. Ave., S. E.
Wilkerson, Roland .....	.....	1221 4½ Street.

*Juniors.*

Name.	State.	Address.
Bartlett, F. I.....	D. C...	1217 L Street.
Birch, J. W.....	D. C...	1012 14th Street.
Butz, E. M.....	Pa. ...	1119 K Street.
Cooper, A. B.....	D. C...	1133 Dartmouth St.
Gardner, B. A.....	Md....	157 Heckman Street.
Gompertz, J. M.....	Conn..	1013 L Street.
Hagan, E. R.....	Va....	612 13th Street.
Harris, C. H.....	Md.....	Rockville, Md.
Humeston, C. A.....	Conn..	620 I Street.
Jones, B. C.....	Va....	821 C Street, S. E.
Layton, R. E.....	Md.....	3122 Q Street.
Murdock, J. C.....	Ill....	810 9th Street, N. E.
Mess, C. J.....	Ind. ..	75 W Street.
Rust, T. L.....	.....	— —.
Willson, B. P....	Md.....	Rockville, Md.

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\* Not in constant attendance.

*Seniors.*

Name.	State.	Address.
Barr, W. C.....	Ill.....	Library of Congress.
Brown, S. T.....	Ill.....	— —.
Cox, George W., Jr.....	D. C...	907 T Street.
De Farges, J. R.....	.....	1731 13th Street.
Haselbarth, C. M.....	N. J...	813 G Street, N. E.
Hasselback, A. L.....	Pa.....	439 Warner Street.
Lane, T. T.....	D. C...	326 3rd Street.
Miller, Paul H.....	D. C...	905 C Street, N. E.
McClenahan, J. T.....	N. C...	1208 M Street.
Mc Intee, A. J .....	Mass ..	1242 11th Street.
Putnam, C. A.....	Maine.	3608 13th Street.
Reise, W. A .....	D. C...	1412 Konesaw Ave.
Richardson, R. G.....	Md....	Hyattsville, Md.
Rule, R. W.....	Iowa ..	317 13th Street, S. W.
Smith, E. E .....	D. C...	331 F Street, N. E.
Smith, H. F.....	Mass ..	921 11th Street.
Vaughan, C.. .....	Va ....	628 La. Avenue.
Watts, Walter.....	Md....	301 M Street.
Wesler, J. H.....	Conn..	905 Mass. Avenue.
White, G. Harris .....	D. C...	1105 E Street, S. W.
Young, Howard.....	Nova Scotia.	811 10th Street.

Total ..... 66

# DEGREES CONFERRED IN 1900.

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## HONORARY.

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### *Doctor of Laws.*

Name.	Residence.
Commander Richard Wainwright, U. S. N. LL. B., Columbian University.	

### *Doctor of Divinity.*

Rev. W. I. McKenney.

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## UPON EXAMINATION.

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### *Doctor of Philosophy.*

Eugene Byrnes .....	New York
B. A., Michigan University.	
LL. B., LL. M., Columbian University.	
Rev. Benjamin Alfred Dumm.....	Maryland
B. A., M. A., Western Maryland College.	
Professor Charles Russell Ely.....	Maryland
A. B., A. M., Yale College.	
Ernestine Fireman .....	Hungary
M. S., Columbian University.	
Charles Moore ...	Michigan
A. B., Harvard; M. A., Columbian University.	

### *Master of Arts.*

Elise Bradford.....	District of Columbia
B. A., Columbian University.	
Lida Draper.....	District of Columbia
B. A., Columbian University.	

Name.	Residence.
William Thomas Faulkner.....	Mississippi
B. S., Columbia University.	
Rev. Edward Darlington Johnson.....	Pennsylvania
B. A., Maryland Agricultural College.	
Horace Leonard Jones.....	Tennessee
A. B., Carson and Newman College.	
Ernest Pendleton Magruder.....	Maryland
B. A., Johns Hopkins University.	
President Clarence Julian Owens.....	South Carolina
Perry Spencer Pearson.....	Georgia
A. B., Mercer University.	
Charles Francis Phelps Richardson.....	Massachusetts
A. B., Harvard University.	
Grace Coburn Smith .....	Maine
A. B., Colby University.	
Albert Rhett Stuart.....	South Carolina
B. A., Columbia University.	
Rev. Albert Norman Ward.....	Maryland
A. B., Western Maryland College.	
Hugh Williams .....	Virginia
B. A., Western Reserve University.	

*Master of Science.*

George Wetmore Colles.....	Massachusetts
A. B., Yale College.	
M. E., Stevens Institute.	
William Eldridge Hillyer.....	Florida
B. S., Columbia University.	
Nevil Monroe Hopkins.....	District of Columbia
B. S., Columbia University.	
Herbert Harvey Kimball.....	New Hampshire
B. S., New Hampshire College of Agriculture and the Mechanic Arts.	
Marcus Ward Lyon, Jr.....	New Jersey
Ph. B., Brown University.	
Thomas Malcolm Price.....	Maryland
B. S., Maryland Agricultural College.	
Mayville William Twitchell.....	New York
B. S., Columbia University.	

*Civil Engineer.*

Name.	Residence.
Eldridge Roger Boyle.....	Maryland
B. S., Columbian University.	
Captain Roy Bagley Hayes.....	Wisconsin
B. S., Columbian University.	
Francis Repetti Weller.....	North Carolina
B. S., Columbian University.	

*Electrical Engineer.*

Faust Frank Crampton.....	Michigan
B. S., University of Michigan.	

*Mechanical Engineer.*

Lieut. Theodore Cornell Fenton, U. S. N.....	Pennsylvania
LL. B., LL. M., Columbian University.	
Ralph Brewster Marean .....	New York
B. S., Columbian University.	

*Doctor of Civil Law.*

R. Felder Able.....	South Carolina
LL. B., LL. M., Columbian University.	
Charles Kissam Allen.....	North Dakota
LL. B., LL. M., National University Law School.	
LL. M., Columbian University.	
Thaddeus Cahill.....	New York
LL. B., LL. M., Columbian University.	
Lewis W. Call.....	Kansas
B. S., Kansas State Agricultural College.	
LL. B., LL. M., Columbian University.	
Charlton M. Clark.....	Mississippi
LL. B., National University Law School.	
LL. M., Columbian University.	
Tatsugoro Fukuda.....	Japan
John Pinkham Gray.....	Idaho
LL. B., LL. M., Columbian University.	
G. W. Hamner.....	Alabama
A. B., A. M., Hiawassoe College, Tennessee.	
LL. B., University of Alabama.	
LL. M., Georgetown University.	
Ph. D., Columbian University.	

Name.	Residence.
Peter J. Healy.....	Minnesota
LL. M., Columbian University.	
Frederick Leith Hemmings.....	Illinois
LL. B., LL. M., Columbian University.	
E. Hilton Jackson.....	District of Columbia
A. M., LL. B., LL. M., Columbian University.	
Charles Jirah Kellogg.....	Louisiana
LL. B., LL. M., National University Law School.	
LL. M., Columbian University.	
Cecil Killam.....	Nova Scotia
A. M., Mt. Allison University.	
LL. B., Dalhousie Law School.	
Charles Linkins.....	District of Columbia
LL. B., LL. M., Columbian University.	
Charles Eugene Matthews.....	Oklahoma
LL. B., LL. M., Columbian University.	
J. William McKinley.....	Ohio
LL. B., LL. M., National University Law School.	
William H. Nelms. ....	Illinois
LL. M., Georgetown University.	
LL. M., Columbian University.	
Solomon C. Pool.....	North Carolina
LL. B., LL. M., Georgetown University.	
Thomas Ruffin.....	North Carolina
LL. B., LL. M., Georgetown University.	
Wm. Louis Willer Schoeverling .....	Wisconsin
LL. B., Kent College of Law.	
LL. M., Chicago Law School.	
Walter Scott Smith.....	Alabama
A. B. Lineville College.	
LL. B., LL. M., Columbian University.	
Milton Z. Strasburger.....	District of Columbia
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Galen L. Tait. ....	Nebraska
LL. B., LL. M., Columbian University.	
Philip Tindall.....	District of Columbia
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Lemuel R. Via.....	Virginia
LL. B., Georgetown University.	
LL. M., Columbian University.	

Name.	Residence.
Reuben B. Watts.....	Alabama
LL. B., Georgetown University.	
LL. M., Columbian University.	
Harry O. Weaver.....	Ohio
LL. B., LL. M., Columbian University.	

*Master of Diplomacy.*

Dixon H. Bynum. ....	Indiana
LL. B., LL. M., Columbian University.	
Willoughby S. Chesley .....	Maryland
LL. B., LL. M., Columbian University.	
Charles Ray Dean.....	Illinois
Ph. B., University of Chicago.	
LL. B., LL. M., Columbian University.	
Thomas Fletcher Dennis.....	Illinois
A. M., Illinois College.	
LL. M., Columbian University.	
John T. Doyle.....	New York
LL. B., LL. M., Columbian University.	
A. J. Halford... ..	Indiana
John W. Holcombe.....	Indiana
A. B., Harvard University.	
LL. B., Columbian University.	
Frank M. Kiggins.....	Tennessee
LL. B., LL. M., University of Georgetown.	
LL. M., Columbian University.	
Claude E. Miller.....	Pennsylvania
LL. B., LL. M., Columbian University.	
Joseph Weare.....	Illinois
B. S., C. E., University of Michigan.	

*Master of Laws.*

Arthur G. Andrews.....	Vermont
C. E., Norwich University.	
George Warren Barrus.....	New Hampshire
LL. B., Columbian University.	
James P. Benfer.....	Ohio
LL. B., Georgetown University.	
Bluford W. Brockett. ....	Maryland
LL. B., Columbian University.	

Name.	Residence.
Joseph Waddell Butts.....	District of Columbia
LL. B., Columbian University.	
Charles McC. Chapman.....	New York
LL. B., Columbian University.	
J. Morrill Chamberlin.....	Virginia
LL. B., LL. M., Georgetown University.	
Warren R. Choate .....	Maryland
LL. B., LL. M., National University Law School.	
Charles C. Clark.....	Pennsylvania
Attorney-at-Law.	
Harry Lee Cooke.....	Tennessee
LL. B., Columbian University.	
James W. Crooks.....	Illinois
LL. B., Columbian University.	
Thomas J. Davis.....	West Virginia
LL. B., West Virginia University.	
George Congdon Fouse.....	District of Columbia
Ph. B., C. E., Yale University.	
LL. B., Columbian University.	
Claude Schurz Frost.....	New York
LL. B., Columbian University.	
L. K. C. Glover .....	Virginia
LL. B., Columbian University.	
Stewart C. Griswold. ....	Michigan
LL. B., Columbian University.	
Charles Hartmann ...	Michigan
LL. B., Columbian University.	
Alfred T. Hawsworth.....	New Hampshire
LL. B., Columbian University.	
Robert Scott Hume.....	Virginia
A. B., Yale University.	
Glenn Edward Husted ...	Michigan
LL. B., Columbian University.	
Kenkichi Koderu.....	Japan
John W. Langley.....	Kentucky
LL. B., LL. M., Columbian University.	
Thomas T. Lienallen.....	Missouri
LL. B., Columbian University.	
Ormsby McHarg.....	North Dakota
LL. B., University of Michigan.	



Name.	Residence.
Charles Gregory McRoberts..... ..	District of Columbia
LL. B., Columbian University.	
Charles Wesley Owen..... ..	Michigan
LL. B., Columbian University.	
George P. Parkes..... ..	North Dakota
LL. B., Columbian University.	
Alvah W. Patterson..... ..	Oregon
LL. B., Columbian University.	
David J. Peffers..... ..	Illinois
Julius I. Peyser..... ..	District of Columbia
LL. B., Georgetown University.	
Harry Alleman Pierce..... ..	District of Columbia
LL. B., Columbian University.	
Benjamin F. Raines... ..	Virginia
LL. B., National University Law School.	
H. G. Rask.... ..	New York
LL. B., Georgetown University.	
Howard Lemon Rohrback..... ..	Pennsylvania
LL. B., Columbian University.	
Hugh Black Rowland..... ..	District of Columbia
LL. B., LL. M., Georgetown University.	
William Thomas Shockley .....	Georgia
A. B., North Georgia Agricultural College.	
John Cecil Spaulding..... ..	Michigan
A. B., University of Michigan.	
LL. B., Columbian University.	
James A. Stallcup..... ..	Missouri
LL. B., Columbian University.	
Richard M. Towson..... ..	Virginia
LL. B., Columbian University.	
Clark James Twinn .....	New York
LL. B., Columbian University.	
Joseph G. Tyssowski .....	District of Columbia
LL. B., Columbian University.	
Henry A. Vieth..... ..	Wisconsin
LL. B., Columbian University.	
Harris A. Walters..... ..	Illinois
LL. B., Georgetown University.	
Albert Coulter Wells .....	Pennsylvania
LL. B., Columbian University.	

Name.	Residence.
Charles Drake Westcott.....	Pennsylvania
LL. B., Columbian University.	
Levi Woodbury Wheeler.....	District of Columbia
LL. B., Columbian University.	
Bayard Wyman. ....	Michigan
LL. B., University of Michigan.	

*Master of Patent Law.*

Robert Starr Allyn.....	Connecticut
B. S., Massachusetts Institute of Technology.	
LL. B., National University Law School.	
Richard S. C. Caldwell .....	District of Columbia
LL. B., National University Law School.	
William Nevarre Cromwell.....	District of Columbia
LL. B., Columbian University.	
William Fairfax Hall.....	District of Columbia
LL. B., Columbian University.	
George R. Hamlin.....	District of Columbia
LL. B., LL. M., National University.	
Joseph H. Milans.....	District of Columbia
LL. B., Columbian University.	
Robert Taylor Oliver.....	District of Columbia
LL. B., LL. M., Columbian University.	
Edward W. Vaill, Jr.....	District of Columbia
B. S., Worcester Polytechnic Institute.	
LL. B., Columbian University.	

*Bachelor of Laws.*

Thomas W. Alexander .....	North Carolina
Arthur G. Andrews.....	Vermont
Horace Bardford Clifton .....	District of Columbia
Dwight P. Dilworth.....	Kansas
William Carlyle Herbert ....	Virginia
Fred J. Holton.....	Utah
Robert Scott Hume.....	Virginia
A. B., Yale University.	
Nels Jenson .....	Utah
Kenkichi Koderu.....	Japan

Name.	Residence.
William E. McClure .....	District of Columbia
A. B., University of Oregon.	
Norman L. Merritt.....	New York
Austin Clark Sloan .....	Wyoming
Albert Rhett Stuart .....	South Carolina
A. B., Columbian University.	
James Stuart.....	Ohio
James G. Sweeney.....	Nevada
A. B., St. Mary's College, California.	
Richard B. Thurman.....	Utah
Edward M. Warren.....	North Dakota

*Doctor of Medicine.*

Noel I. Barron .....	Alabama
Charles M. Beall.....	District of Columbia
Robert S. Beale .....	District of Columbia
Daniel T. Birtwell. ....	Pennsylvania
George Monroe B. Bradshaw.....	Pennsylvania
Orville G. Brown.....	District of Columbia
Abraham D. Butz.....	Pennsylvania
James Stephen Cannon.....	England
Winfield Scott Clarke .....	New York
Edgar Pasqual Copeland.....	District of Columbia
Taylor Boyd Dixon.....	District of Columbia
Rowland Houghton Ford .....	District of Columbia
Samuel H. Greene, Jr.....	Vermont
Abner G. Greenstreet.....	Missouri
Wilmer E. Griffith .....	Pennsylvania
Thomas June Kemp.....	Nebraska
Henry Cook Macatee.....	Virginia
Russel Burton Main .....	District of Columbia
Herbert Miller Manning. .	Pennsylvania
Selma M. Mason .....	Virginia
William R. Moulden.....	District of Columbia
Elliott Cones Prentiss.....	District of Columbia
Henry Reis, Jr.....	Illinois
J. Lewis Riggles .....	District of Columbia
A. Avery Rittenour.....	District of Columbia
Charles Alexander Ragan.....	Tennessee

Name.	Residence.
Cornelius Timothy Smith, Jr.....	Virginia
J. W. Stearns.....	District of Columbia
John Whitehurst Stewart .....	North Carolina
Adelbert A. Taylor.....	Ohio
Ulys R. Webb.....	Tennessee
Alfred John Westlake.....	New York
L. J. Wyeth.....	Illinois

*Doctor of Dental Surgery.*

Alexander P. Bacon.....	Iowa
Harris Edgar Brengle. ....	Tennessee
Ernest M. Colvin... ..	Virginia
Charles W. Cuthbertson ... ..	District of Columbia
Edwin Wakefield Greene.....	Massachusetts
Charles Ivory Hughes.....	Tennessee
Horace F. Perlle.....	Massachusetts
H. Morris Van Voorhis.....	Pennsylvania
J. Kendall Wallace.....	Ohio
Franklin Welch.....	Delaware
Horace William Whittaker.....	Ohio
Frank Homer Wolven.....	New Jersey
James Robertson Yates.....	District of Columbia

*Bachelor of Arts.*

Harry Tennyson Domer.....	District of Columbia
Hubert Bruce Fuller.....	Connecticut
Samuel Nathaniel Haws ... ..	Tennessee
Arnold Harris Hord....	Pennsylvania
Charles Byron Keller.....	New Jersey
Melville Wilmer Lindsey.....	Virginia
Colton Maynard.....	District of Columbia
Elsie Elizabeth Parkinson.....	Michigan
William Dent Sterrett .....	District of Columbia

*Bachelor of Science.*

J. William Beatty.....	Missouri
George Magruder Berry.....	Maryland
George G. Chase .....	Kansas

Name.	Residence.
Harry C. Coburn, Jr.....	District of Columbia
Rosalie Agnes Robinette.....	Pennsylvania
Pearl Edna Thönssen.....	Texas

## In General Science.

Martha Maria Brewer.....	Maryland
Walter Armitage Scott.....	Illinois

## In Language and Literature.

Giles Russell Taggart.....	New Jersey
----------------------------	------------

## In Civil Engineering.

Lester Morton Holt .....	Wisconsin
Charles Real Olberg.....	Minnesota
Wilford Ashford Thompson.....	Iowa

## GENERAL SUMMARY.

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### OFFICERS OF GOVERNMENT AND INSTRUCTION.

Trustees .....	18	
Professors.....	86	
Associate Professors .....	3	
Assistant Professors .....	11	
Lecturers .....	12	
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Law School .....	488	
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Medical School.....	249	
Dental School.....	66	
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	<hr/>	1,415
Total .....		<hr/> 1,606

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## GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

Alabama.....	6	Louisiana.....	7	Pennsylvania..	80
Arkansas.....	9	Maine.....	20	Peru.....	1
California.....	10	Maryland.....	10	Philippine Isl..	1
Canada.....	1	Massachusetts..	34	Porto Rico.....	1
China.....	1	Mexico.....	1	Rhode Island..	2
Colorado.....	6	Michigan.....	34	Russia.....	2
Connecticut..	14	Minnesota.....	21	South Carolina.	23
Delaware.....	4	Mississippi.....	32	South Dakota..	2
Dist. of Col....	441	Missouri.....	18	Switzerland....	1
Florida.....	4	Montana.....	4	Tennessee.....	23
Georgia.....	23	Nebraska.....	4	Texas.....	21
Germany.....	1	New Hampshire	10	Utah.....	3
Idaho.....	6	New Jersey....	12	Vermont.....	4
Illinois.....	59	New York.....	73	Virginia.....	103
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